

FIG. 1

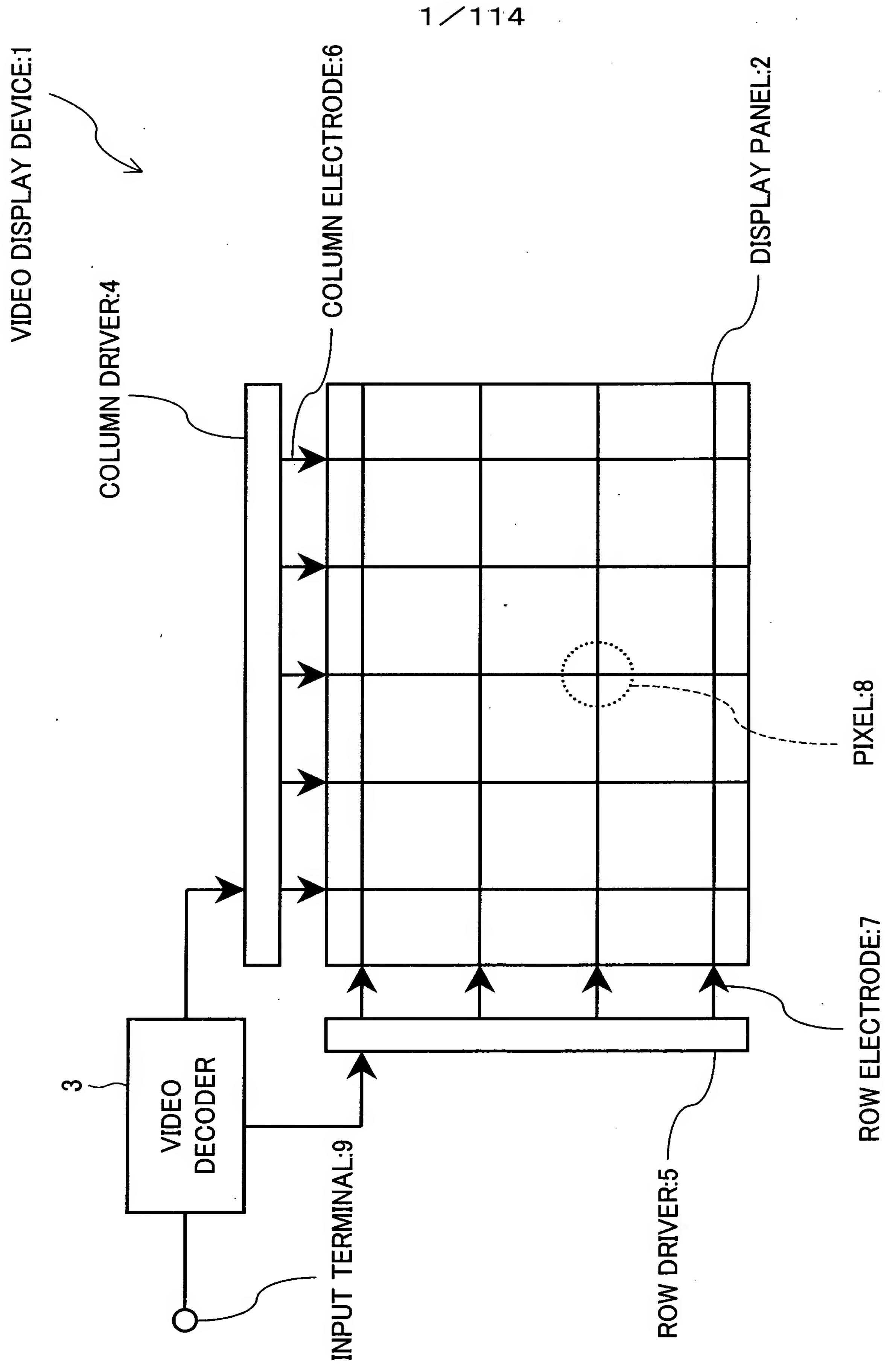


FIG. 2
INSTANTANEOUS LIGHT
EMISSION INTENSITY

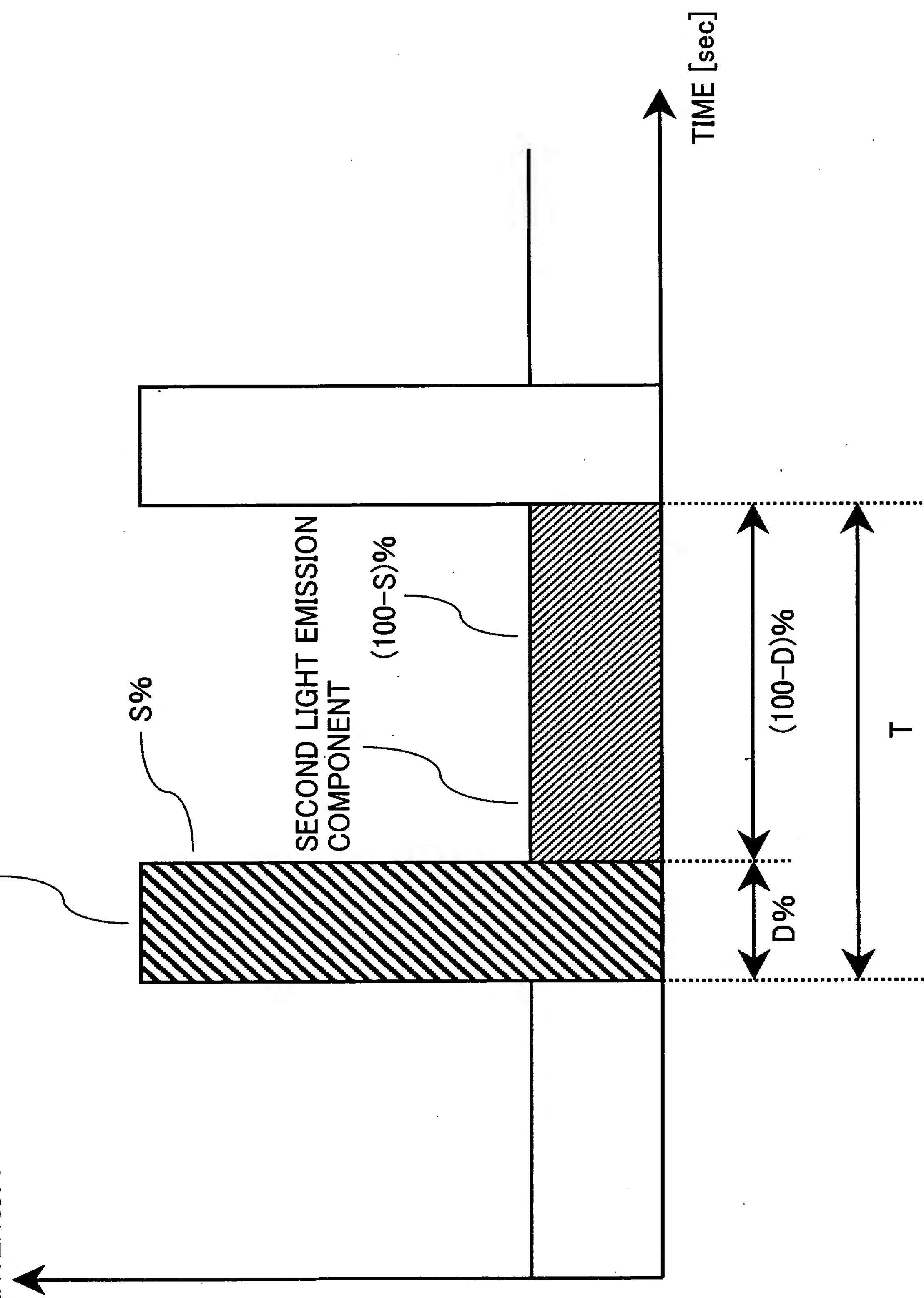


FIG. 3 (a)

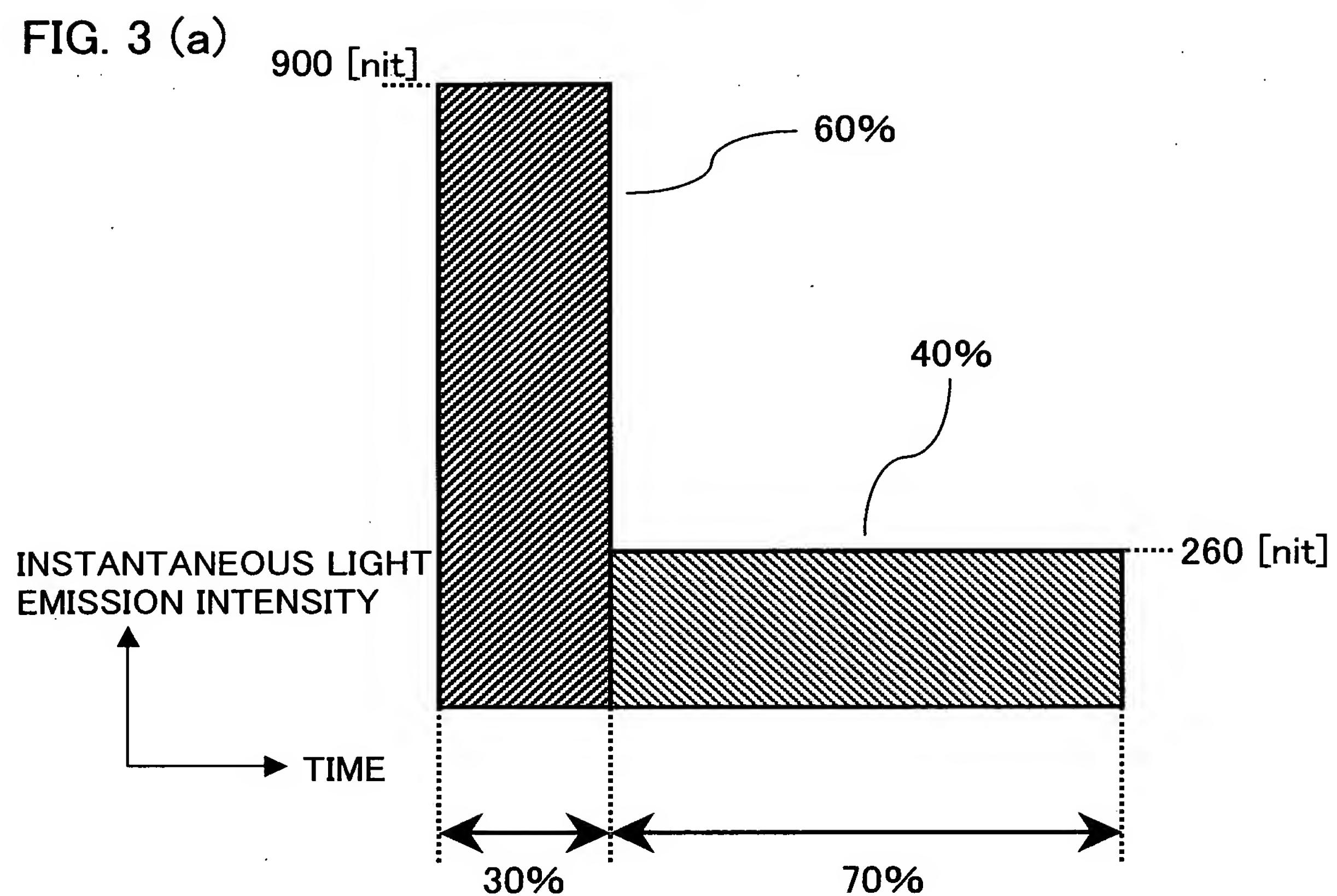


FIG. 3 (b)

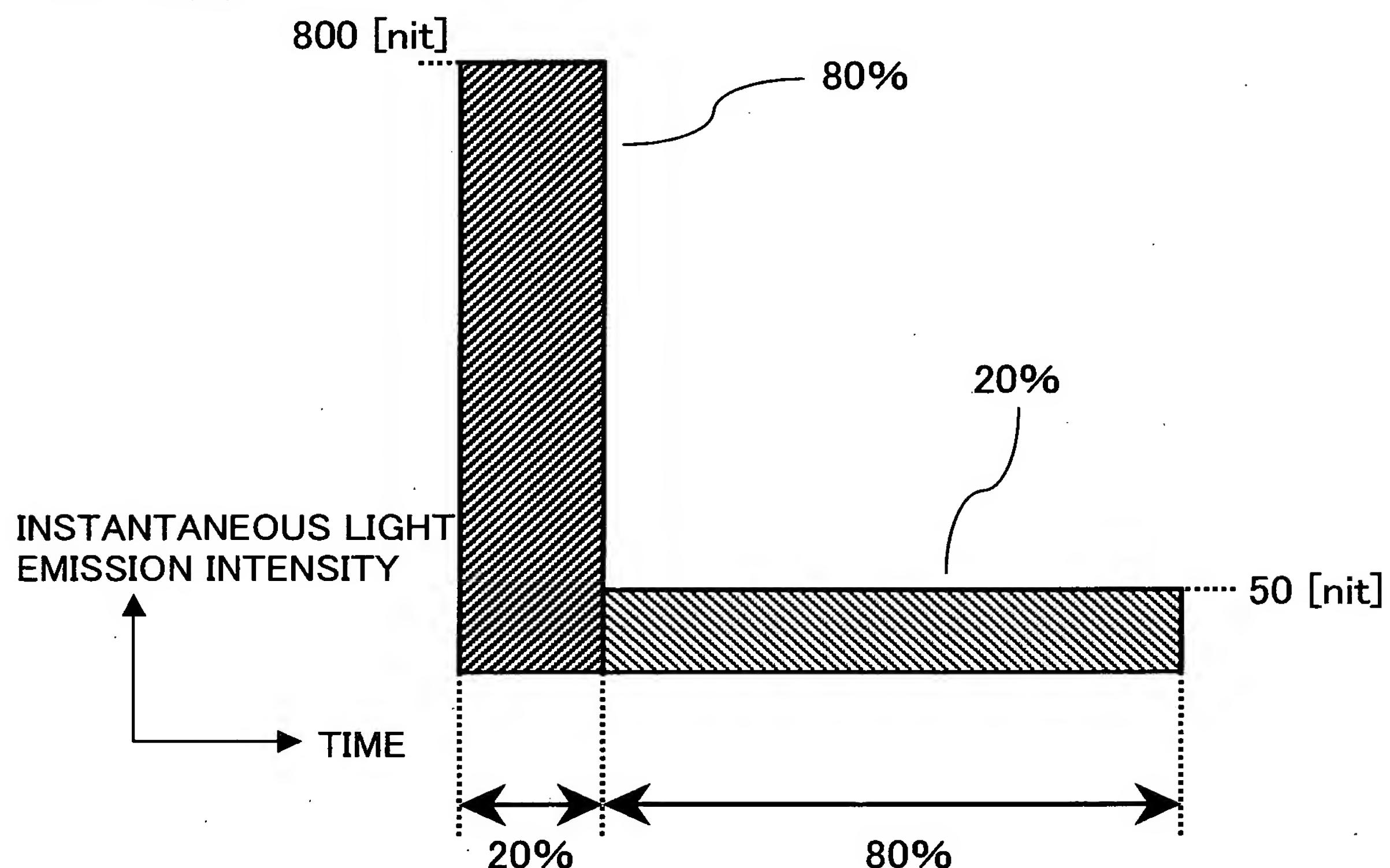


FIG. 4

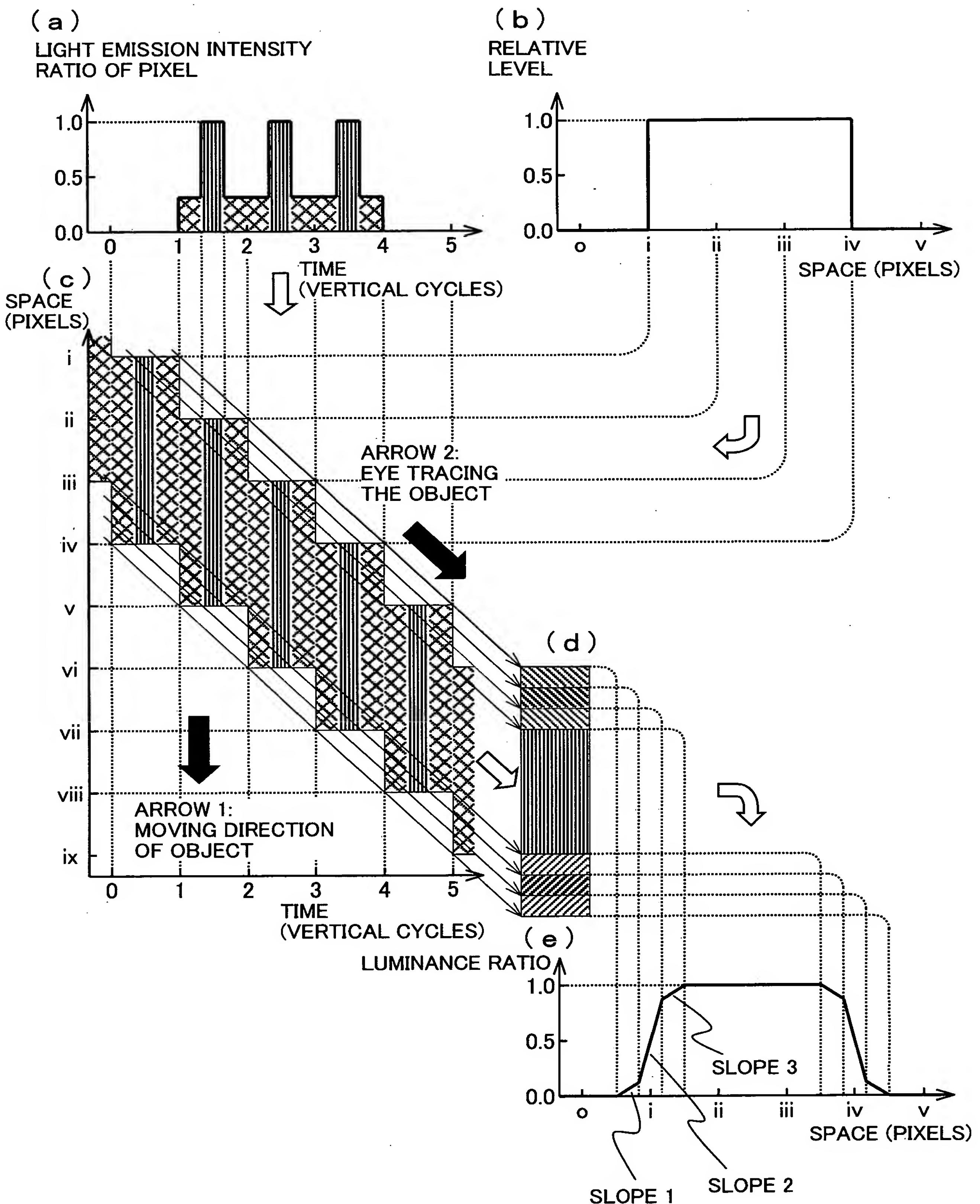


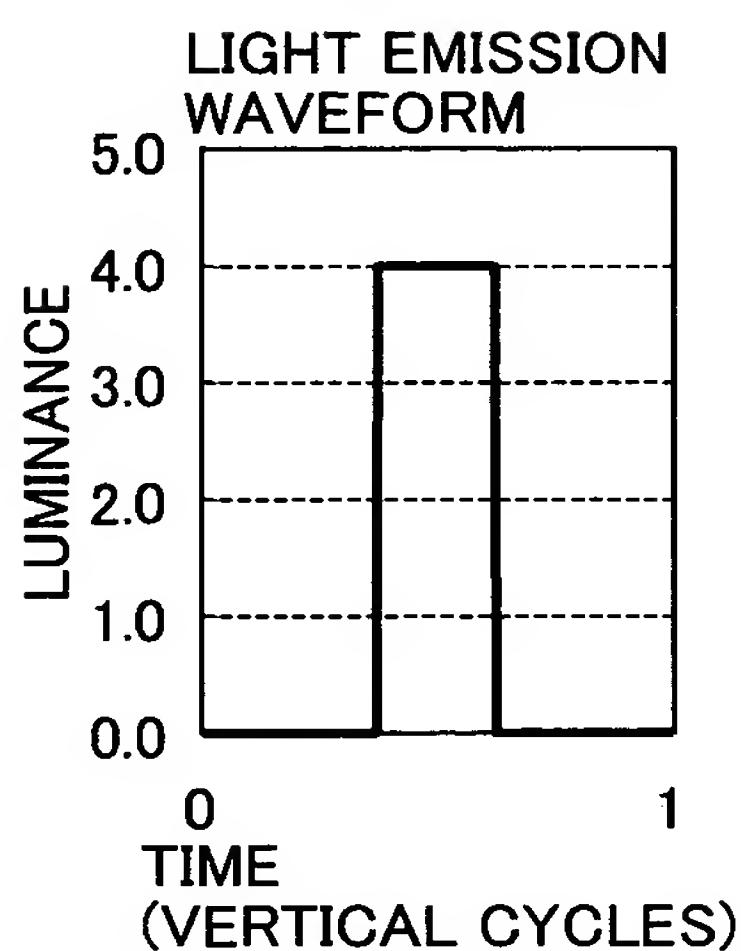
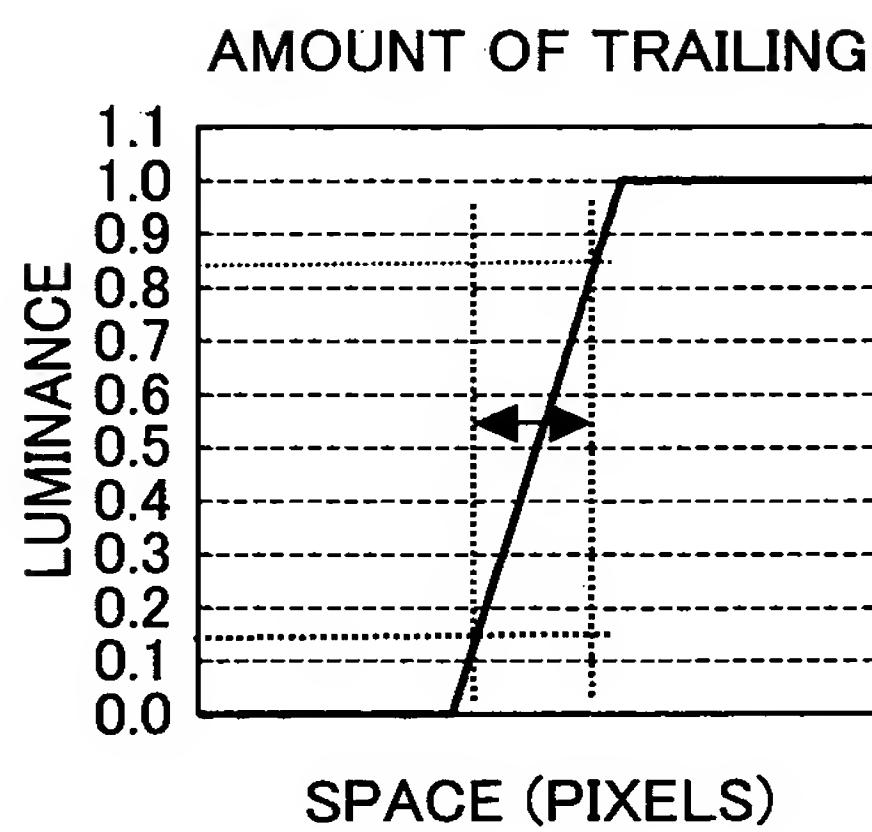
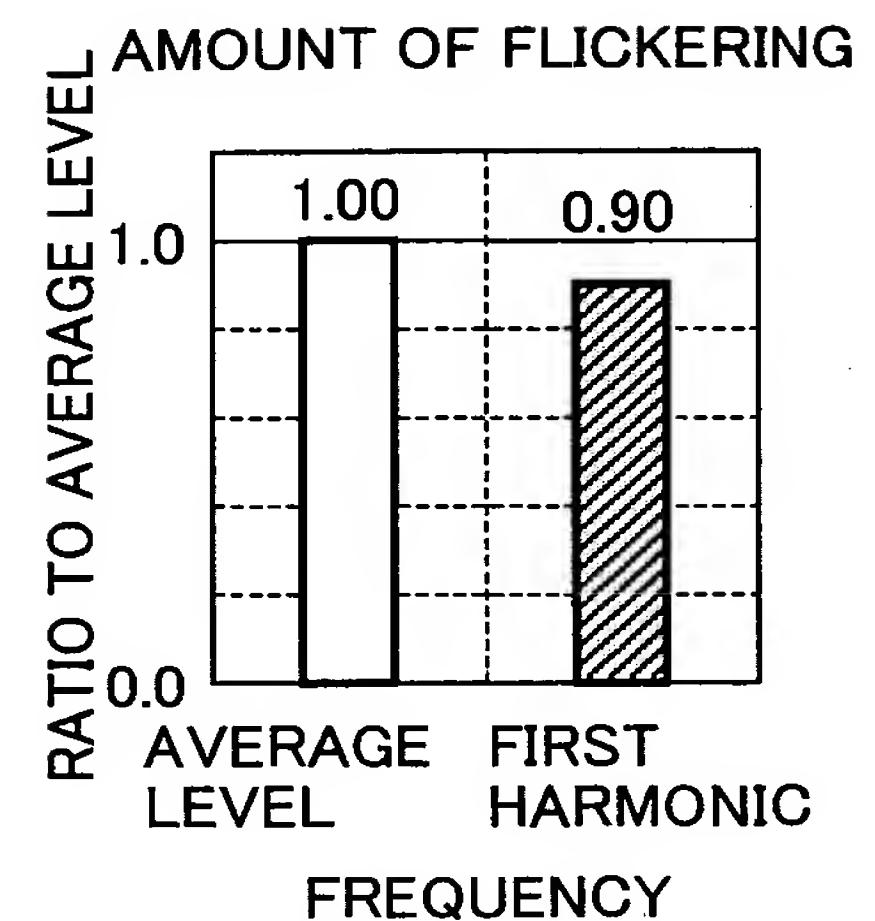
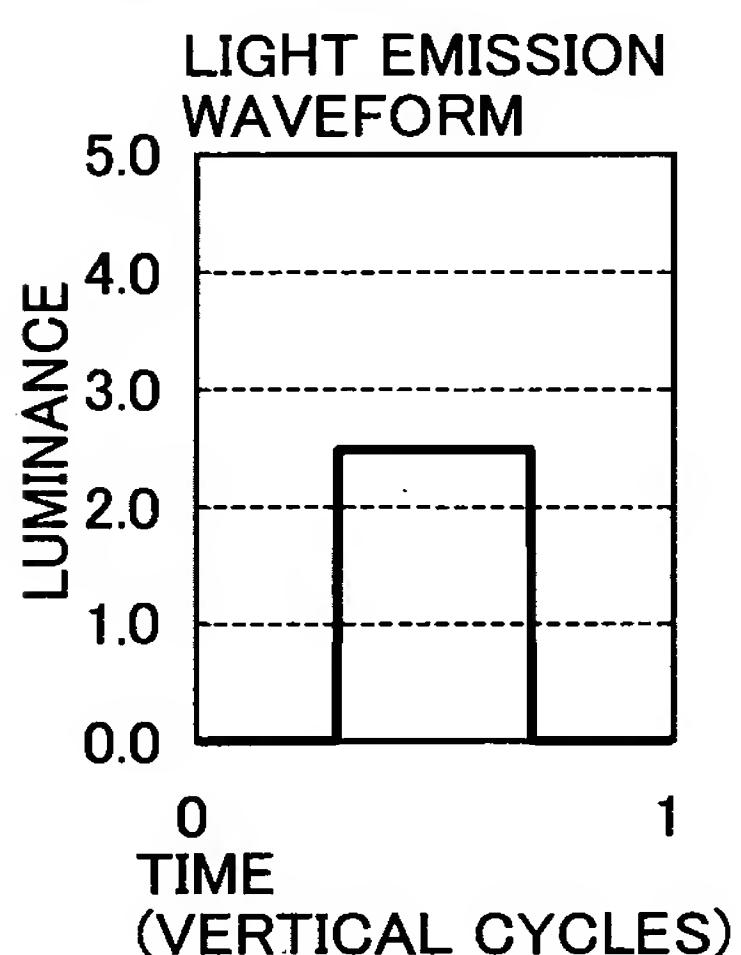
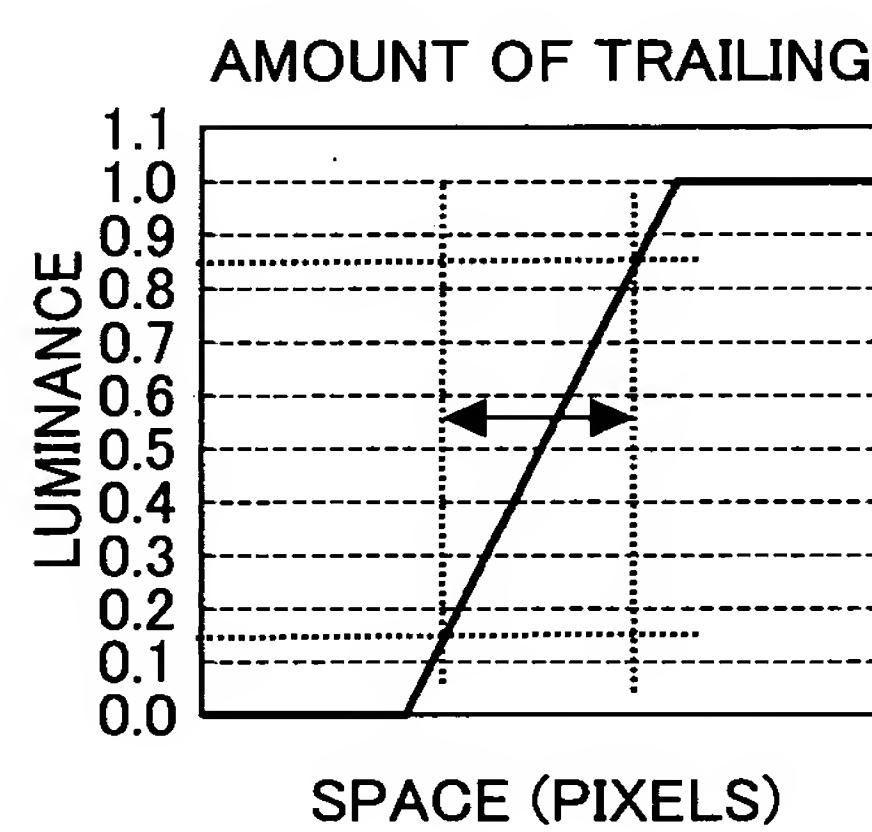
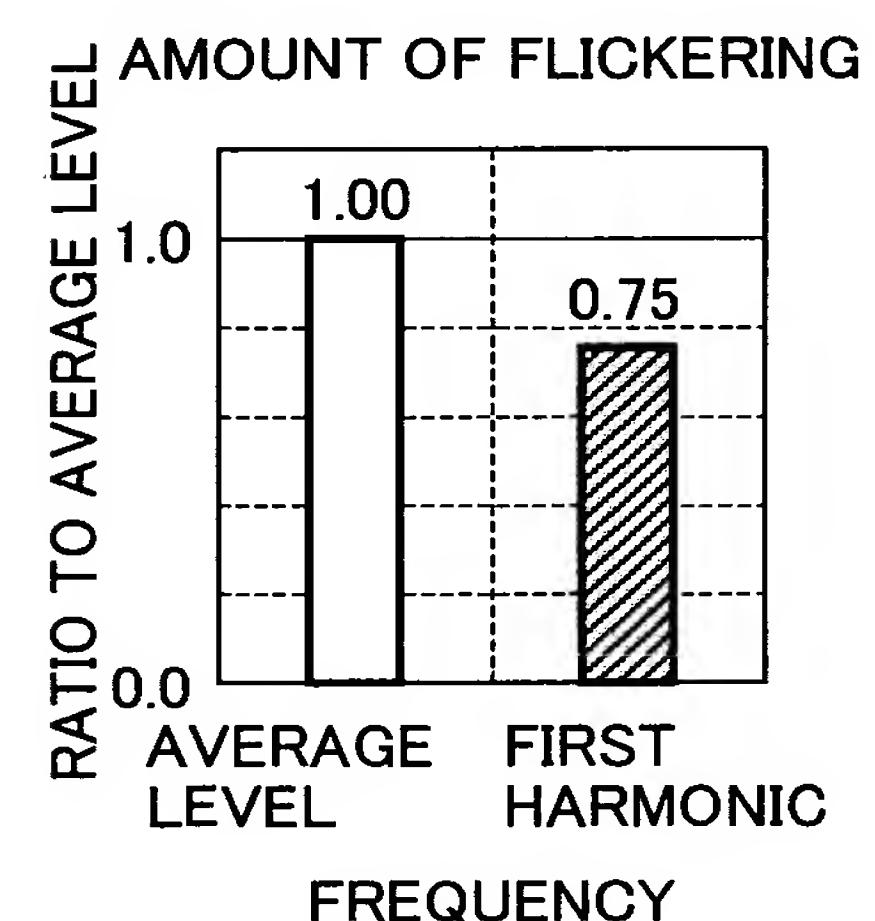
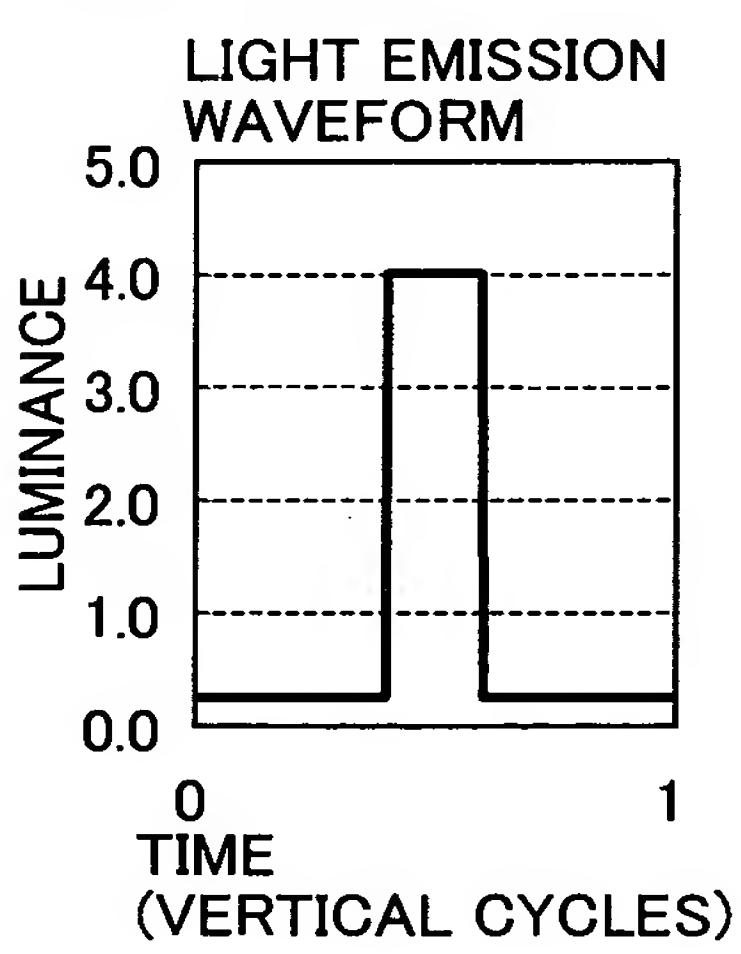
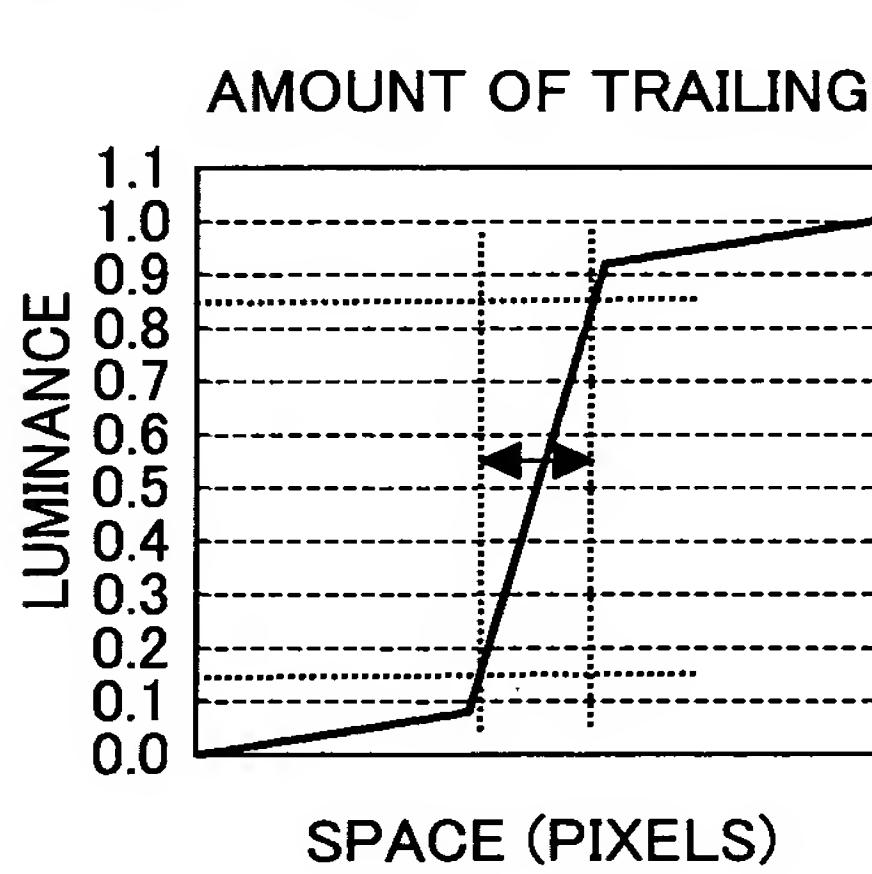
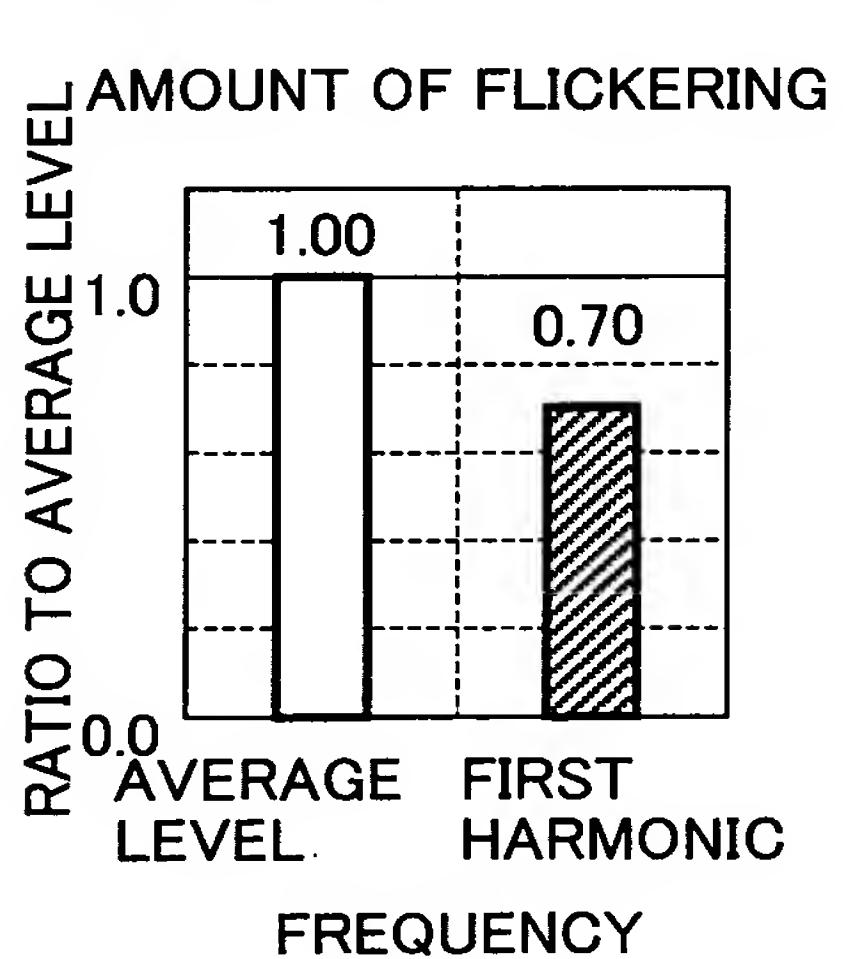
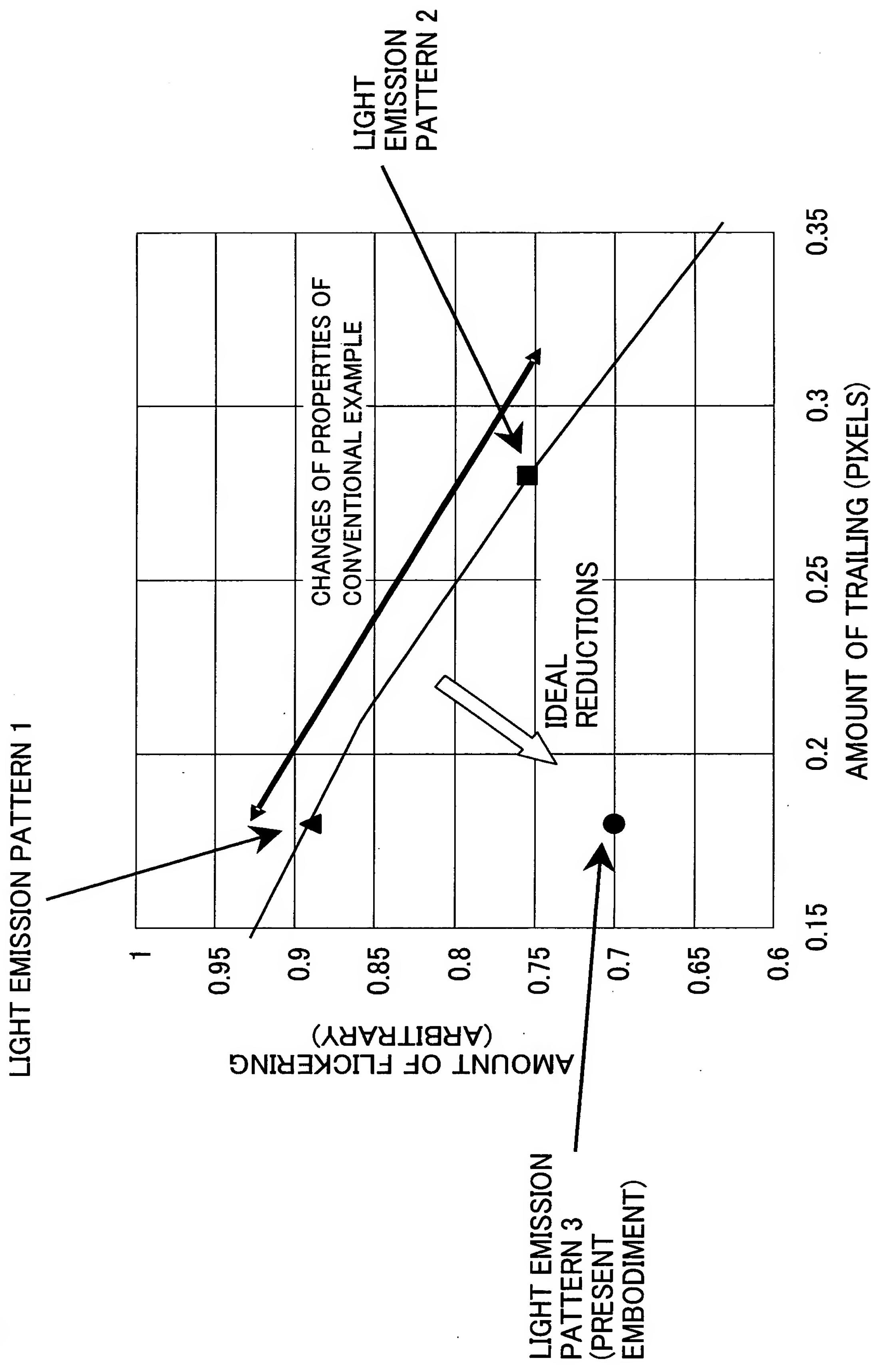
FIG. 5 (a)**FIG. 5 (b)****FIG. 5 (c)****FIG. 5 (d)****FIG. 5 (e)****FIG. 5 (f)****FIG. 5 (g)****FIG. 5 (h)****FIG. 5 (i)**

FIG. 6

		COL. 1	COL. 2	COL. 3	COL. 4
		DUTY RATIO D (%) OF FIRST LIGHT EMISSION COMPONENT	LIGHT EMISSION INTENSITY RATIO S (%) OF FIRST LIGHT EMISSION	AMOUNT OF TRAILING (PIXELS)	AMOUNT OF FLICKERING (%)
ROW 1	CONVENTIONAL EX.	25	100	0. 18	90
ROW 2	CONVENTIONAL EX.	40	100	0. 28	7.5
ROW 3	PRESENT EMBODIMENT.	20	80	0. 18	70

FIG. 7



DATA WHEN S IS FIXED AT 70%

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.08	0.87
20	0.16	0.82
30	0.23	0.74
40	0.31	0.63
50	0.39	0.51
60	0.47	0.38
70	0.54	0.25
80	0.62	0.12

DATA WHEN S IS FIXED AT 90%

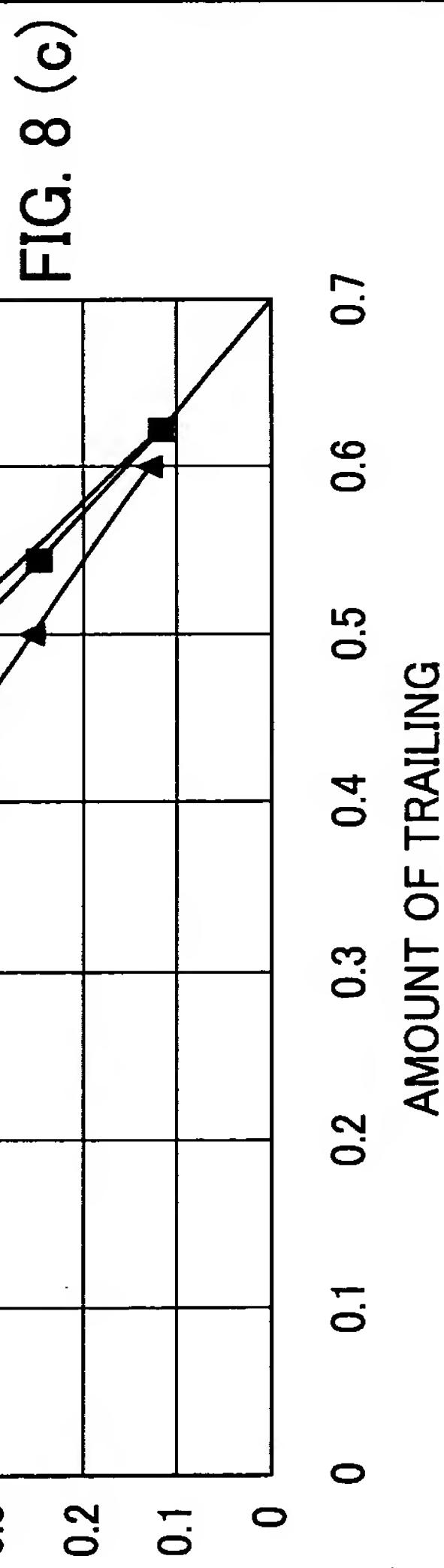


FIG. 8 (a)

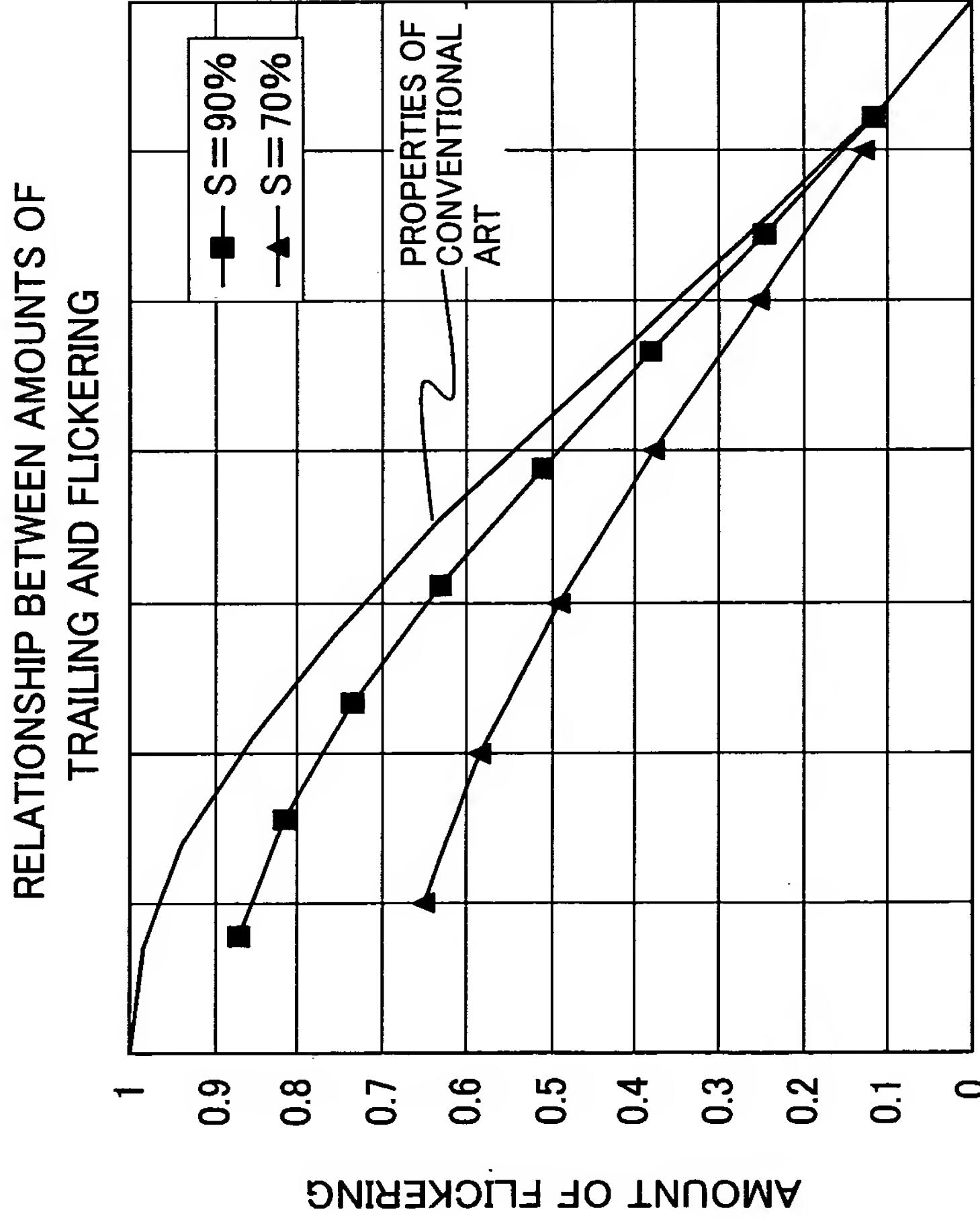


FIG. 8 (b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.08	0.87
20	0.16	0.82
30	0.23	0.74
40	0.31	0.63
50	0.39	0.51
60	0.47	0.38
70	0.54	0.25
80	0.62	0.12

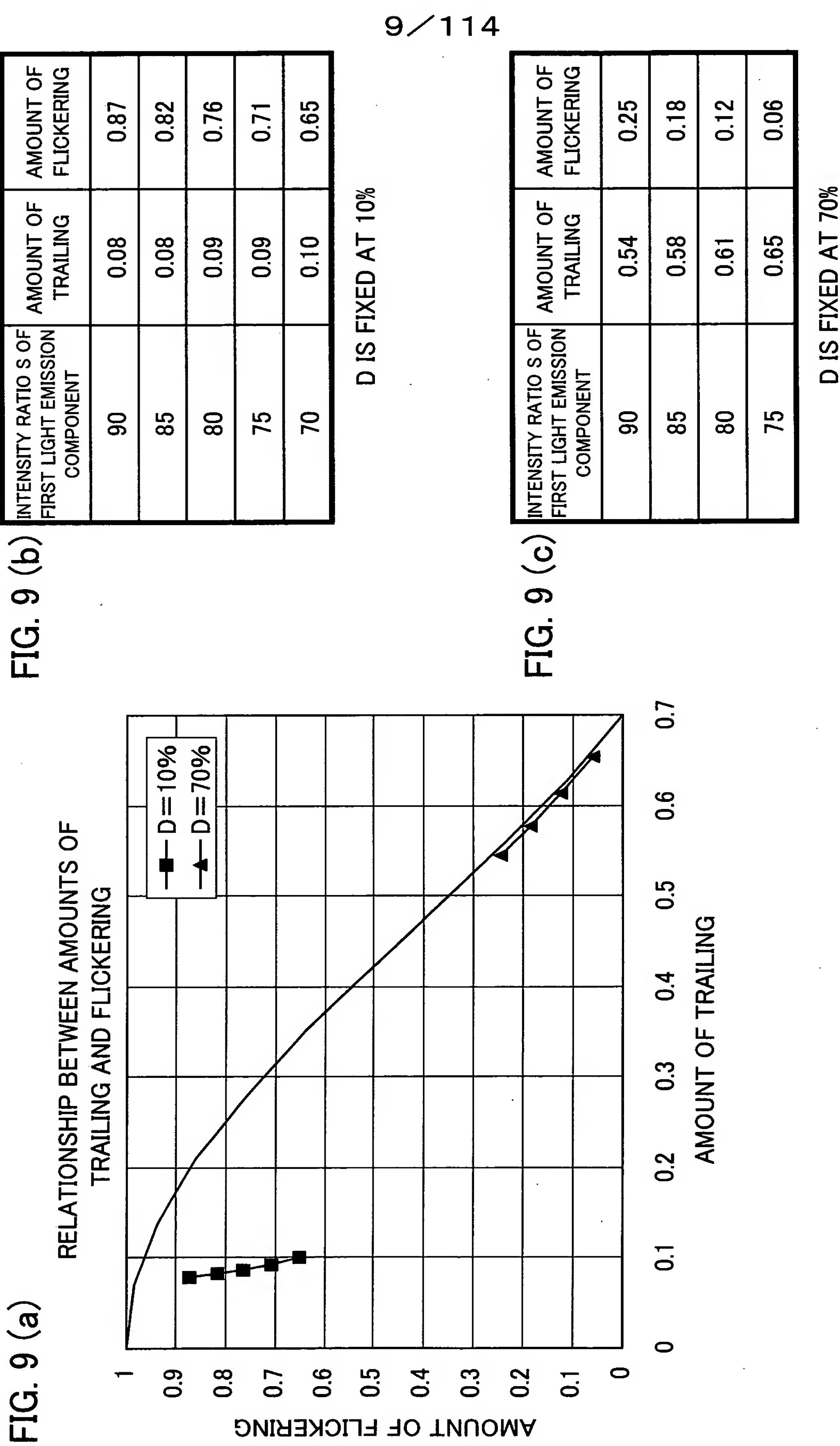


FIG. 10 (a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

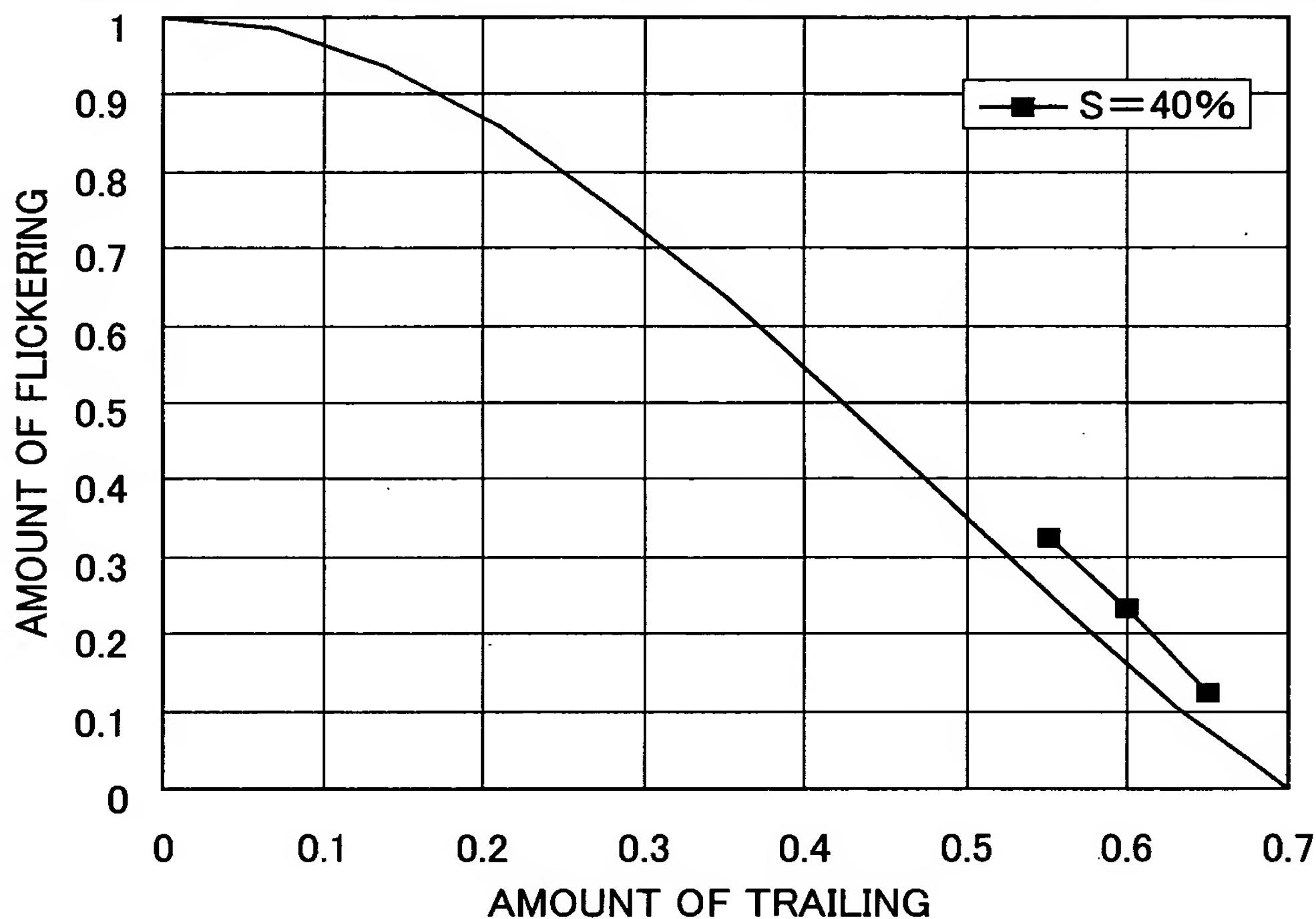


FIG. 10 (b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.55	0.323
20	0.6	0.2333
30	0.65	0.1228

S FIXED AT 40%

FIG. 11 (a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

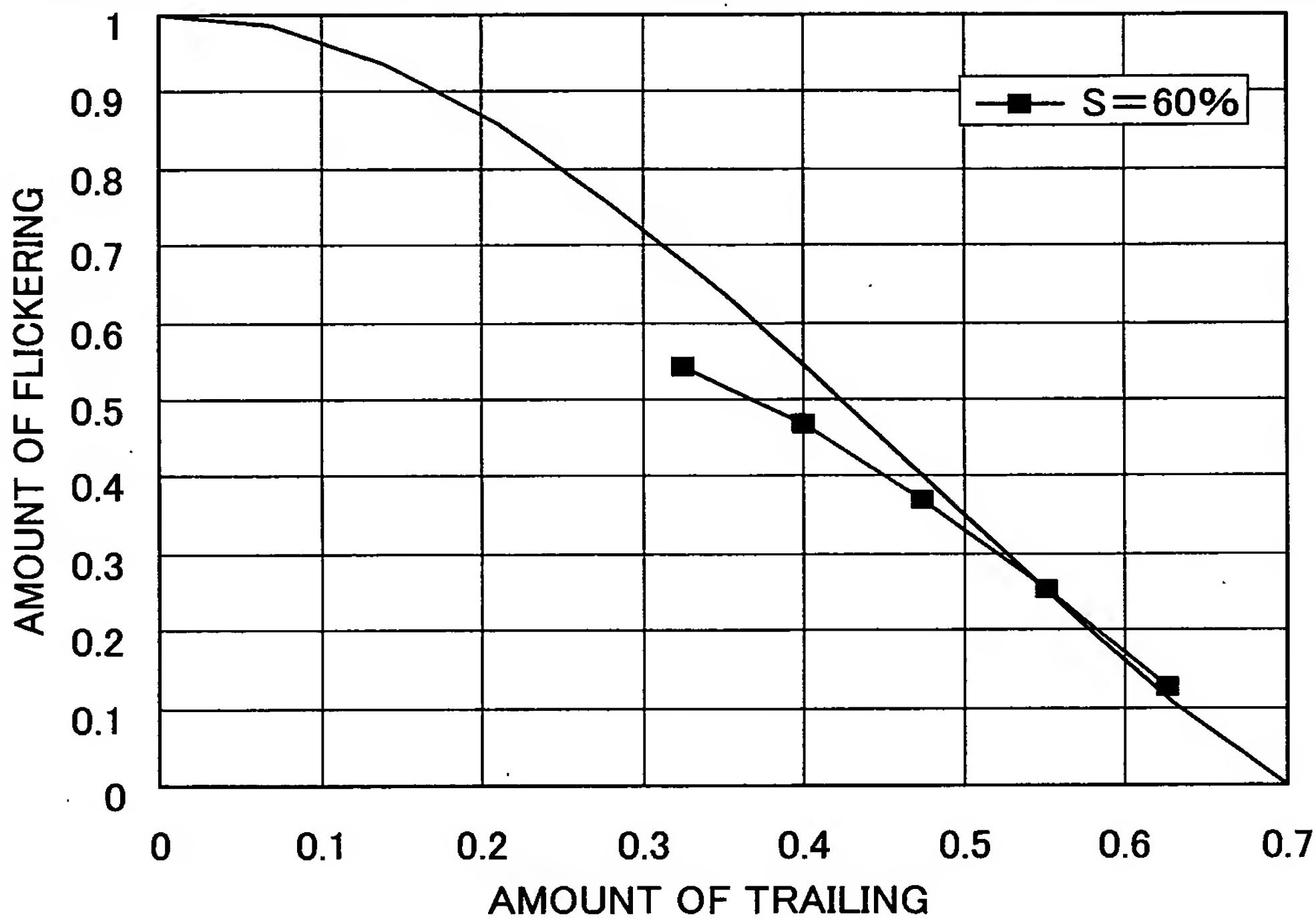


FIG. 11 (b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.325	0.5411
20	0.4	0.4671
30	0.475	0.3681
40	0.55	0.2524
50	0.625	0.1273

S FIXED AT 60%

FIG. 12

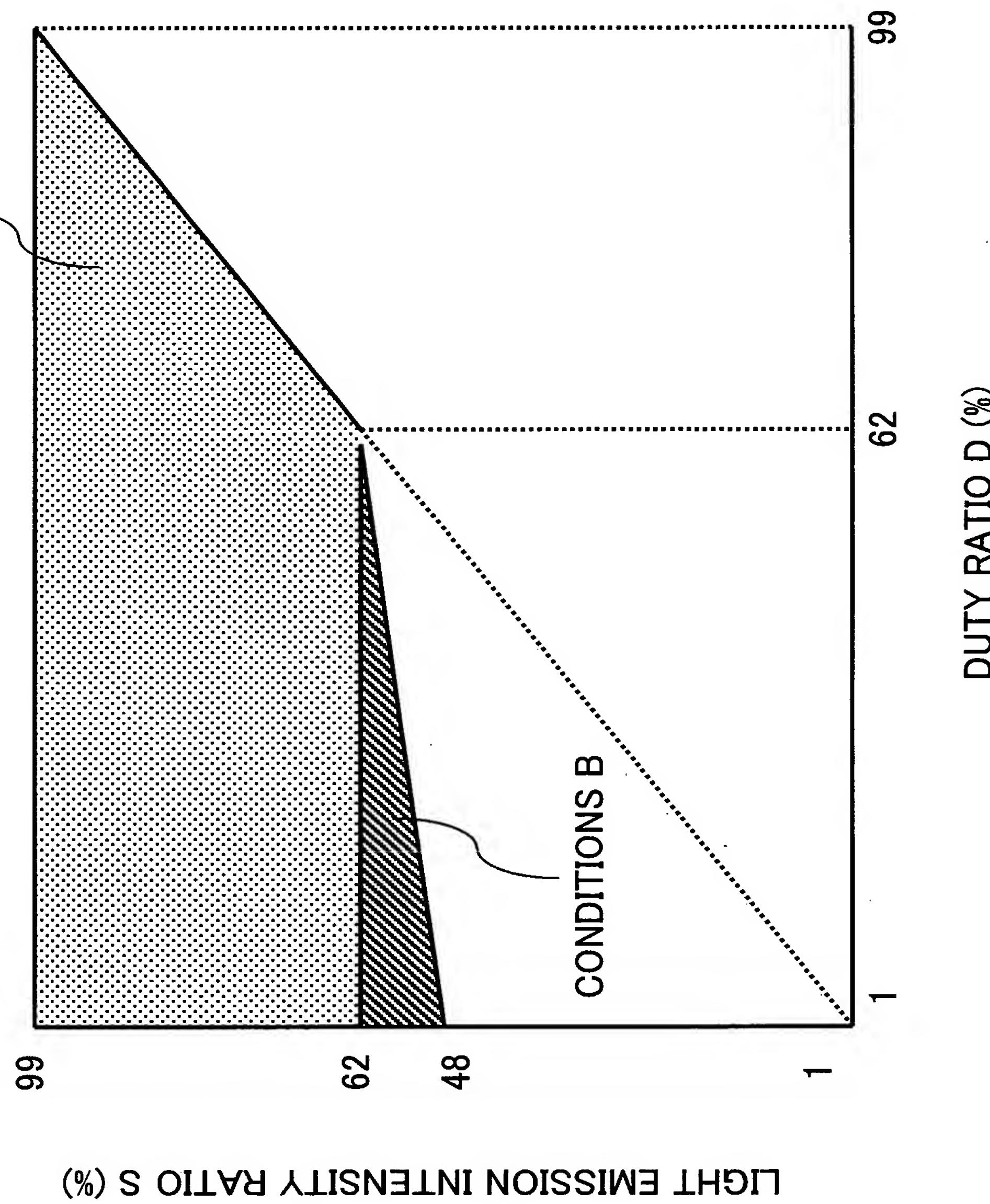


FIG. 13 (a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

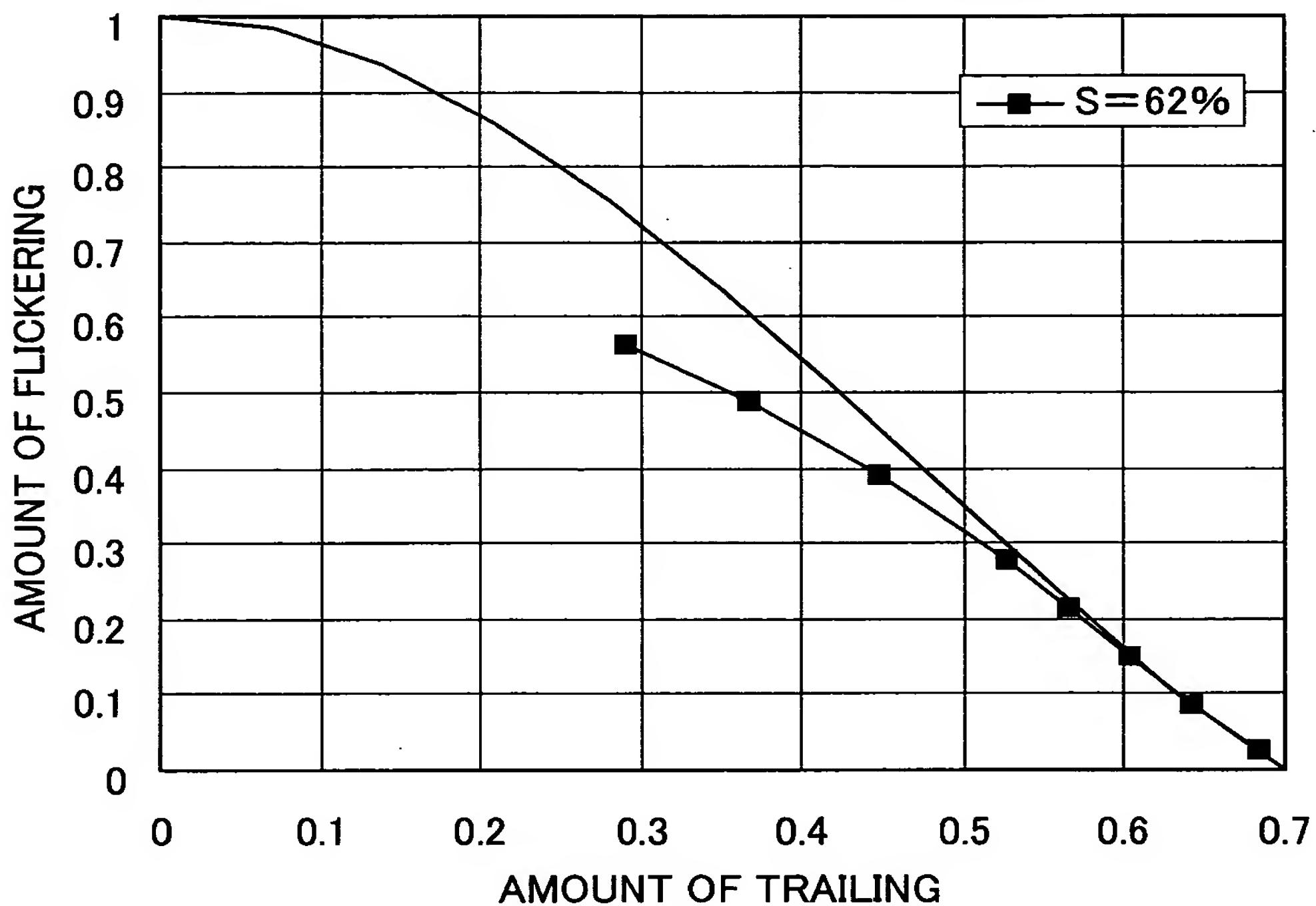


FIG. 13 (b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.29	0.56
20	0.37	0.49
30	0.45	0.39
40	0.53	0.28
45	0.57	0.22
50	0.60	0.15
55	0.64	0.09
60	0.68	0.03

S FIXED AT 62%

FIG. 14 (a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

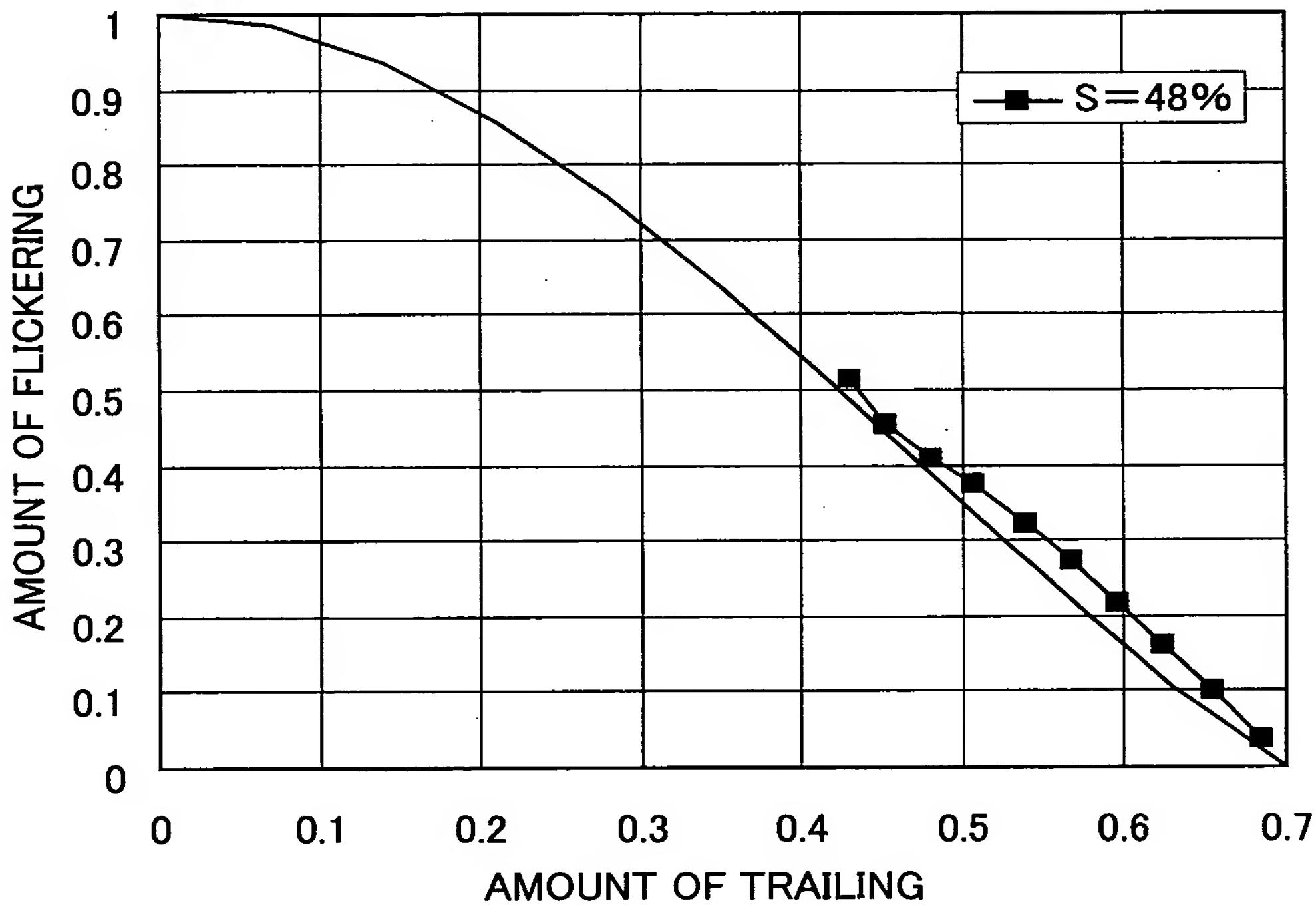


FIG. 14 (b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
1	0.43	0.51
5	0.45	0.45
10	0.48	0.41
15	0.51	0.38
20	0.54	0.33
25	0.57	0.28
30	0.60	0.22
35	0.62	0.16
40	0.65	0.10
45	0.68	0.04

S FIXED AT 48%

FIG. 15 (a)

UPPER LIMITS OF DUTY RATIO

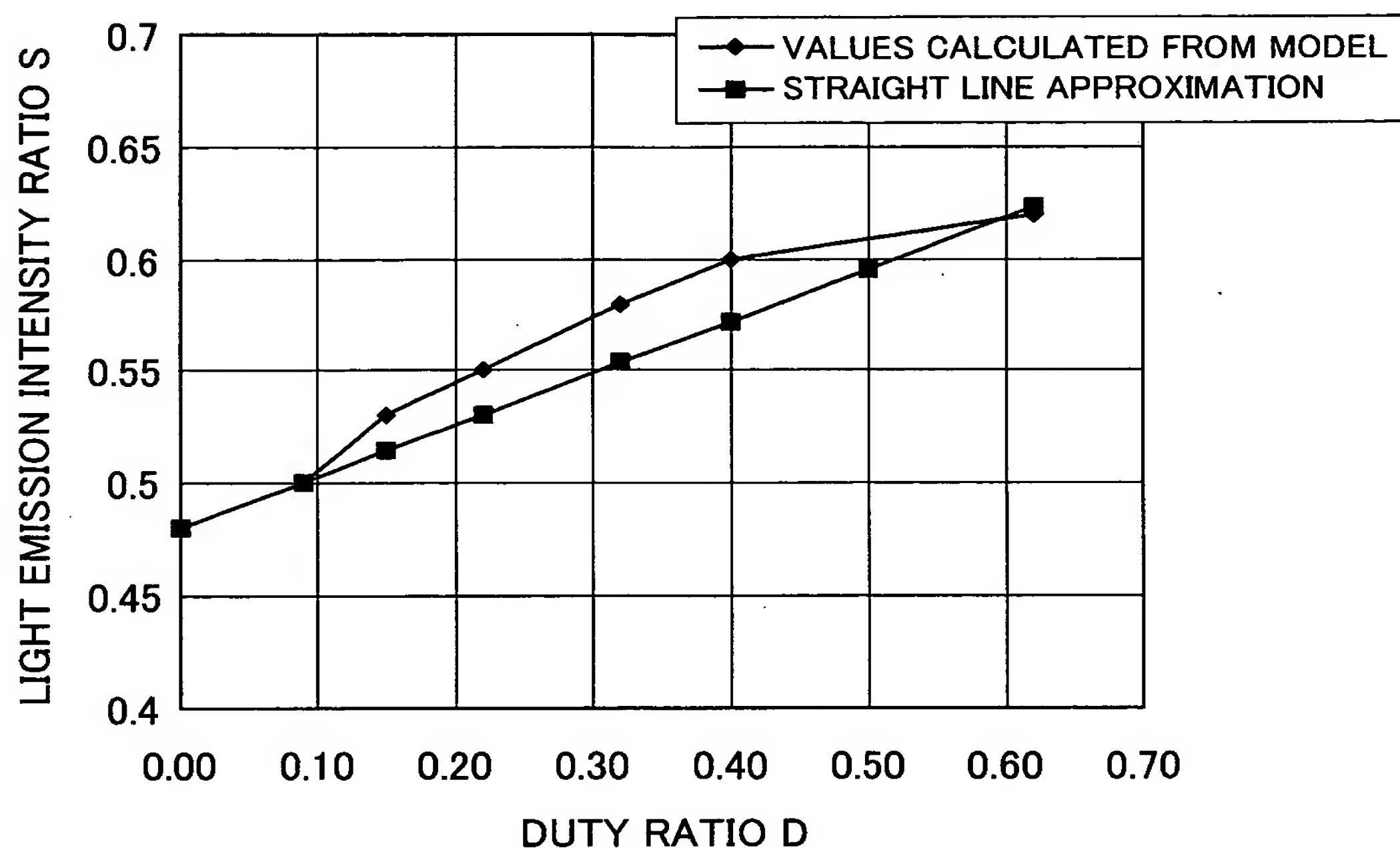


FIG. 15 (b)

DUTY RATIO D	LIGHT EMISSION INTENSITY RATIO S
0.09	0.5
0.15	0.53
0.22	0.55
0.32	0.58
0.4	0.6
0.619	0.62

VALUES CALCULATED FROM MODEL

FIG. 16 (a)

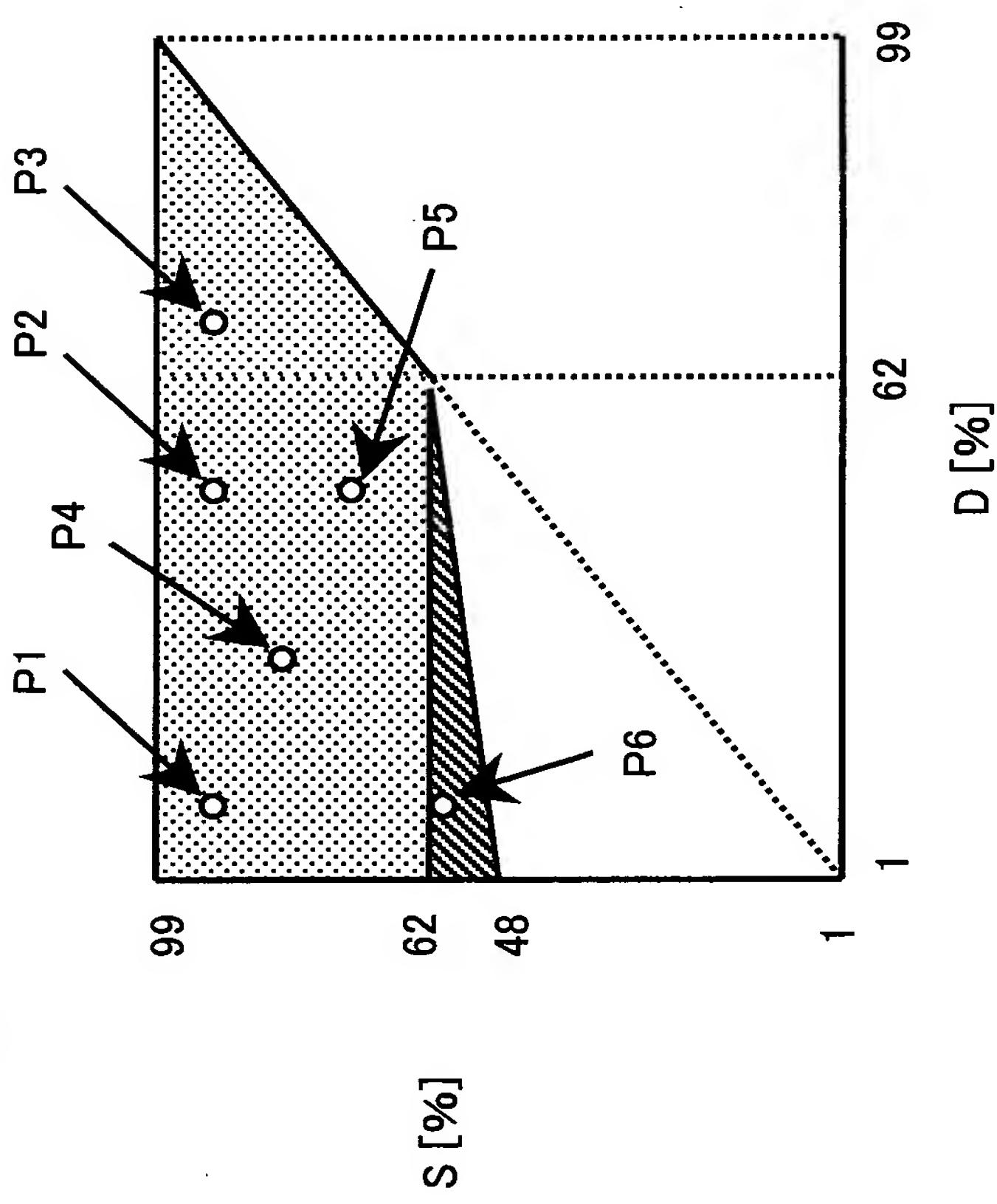


FIG. 16 (c)

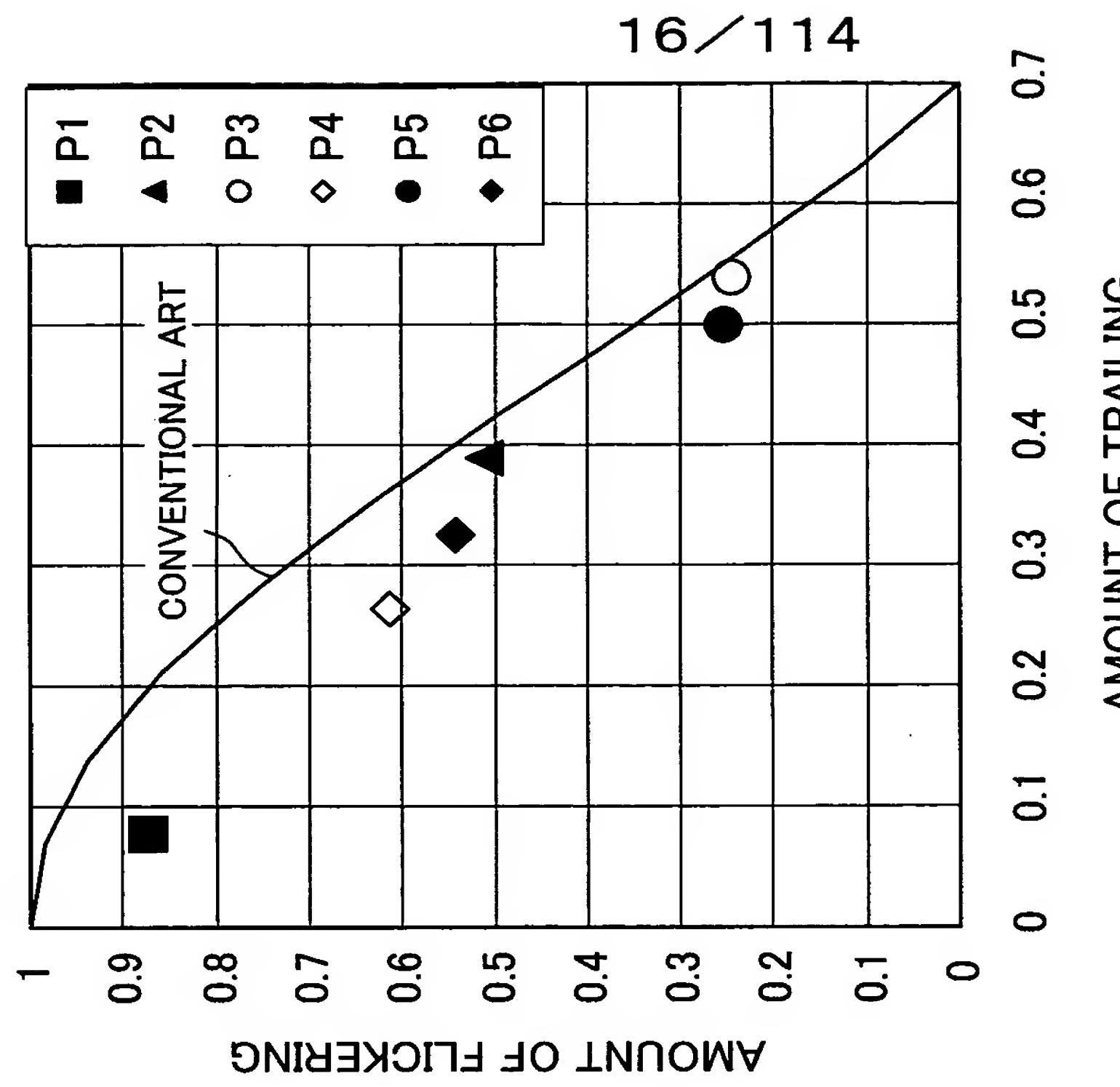


FIG. 16 (b)

POINT	D (%)	S (%)	AMOUNT OF FLICKERING	AMOUNT OF TRAILING
P1	0.1	0.9	0.08	0.87
P2	0.5	0.9	0.39	0.51
P3	0.7	0.9	0.54	0.25
P4	0.3	0.8	0.26	0.61
P5	0.5	0.7	0.5	0.25
P6	0.1	0.6	0.33	0.54

FIG. 17 (a)

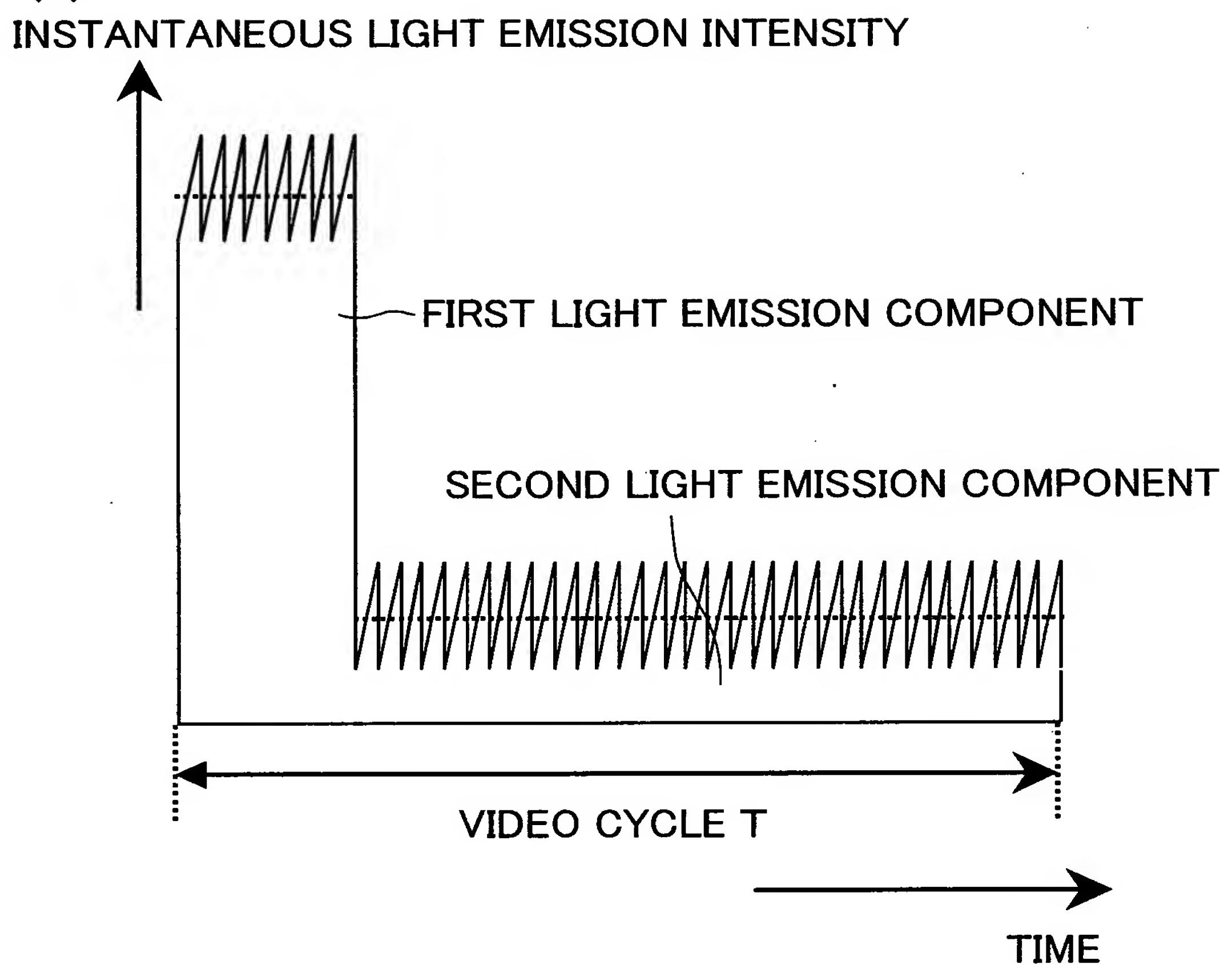


FIG. 17 (b)

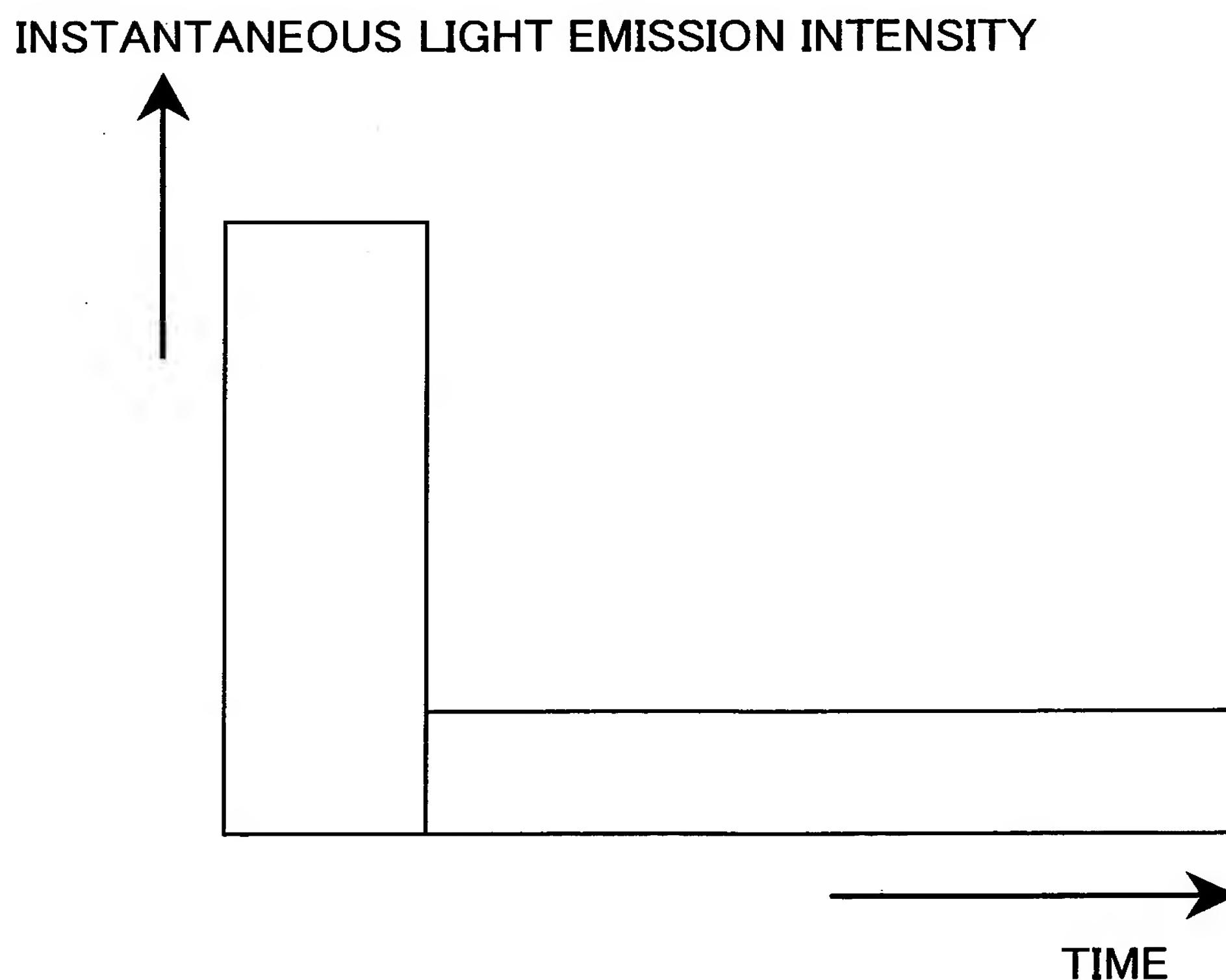


FIG. 18 (a)

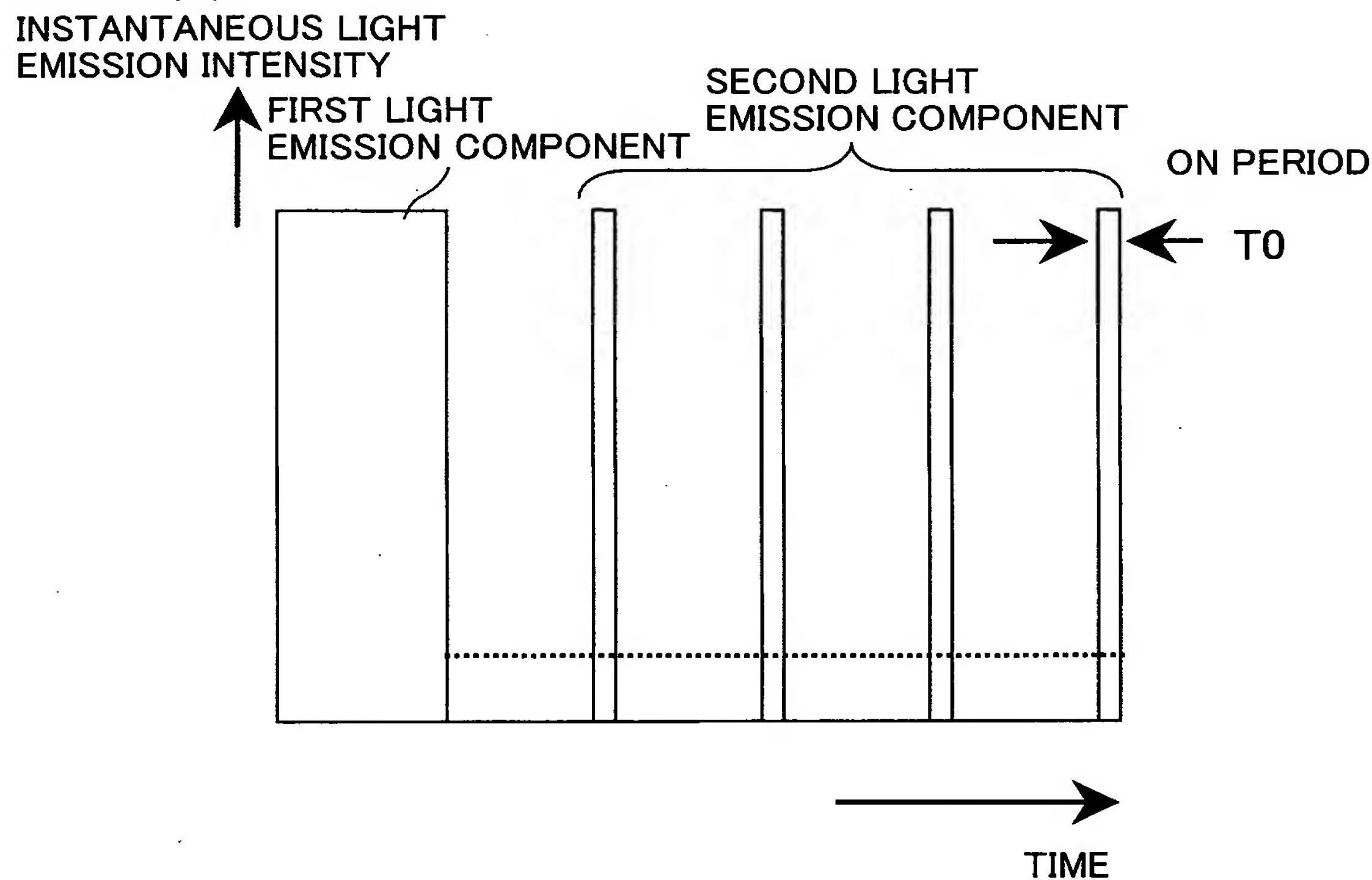


FIG. 18 (b)

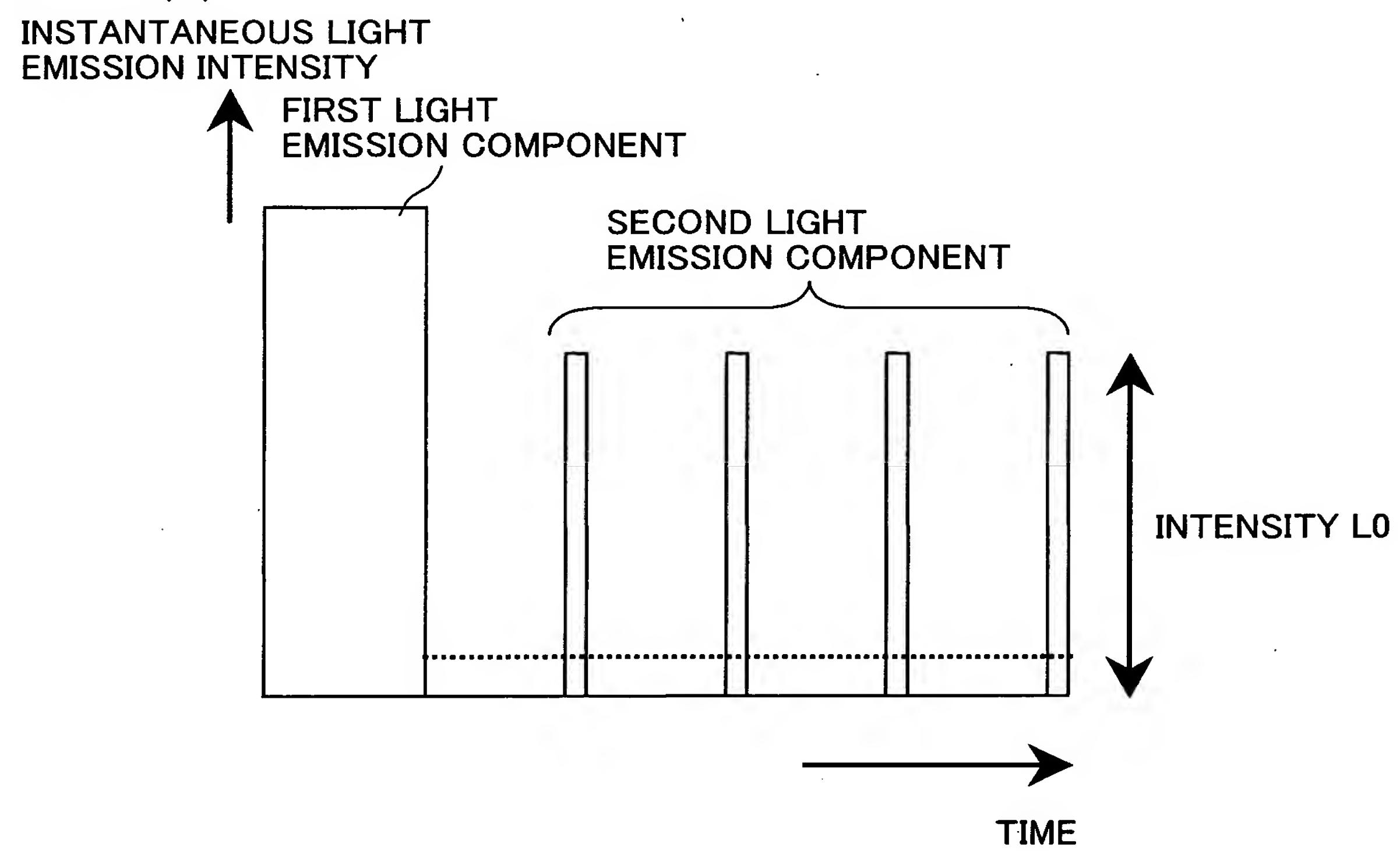


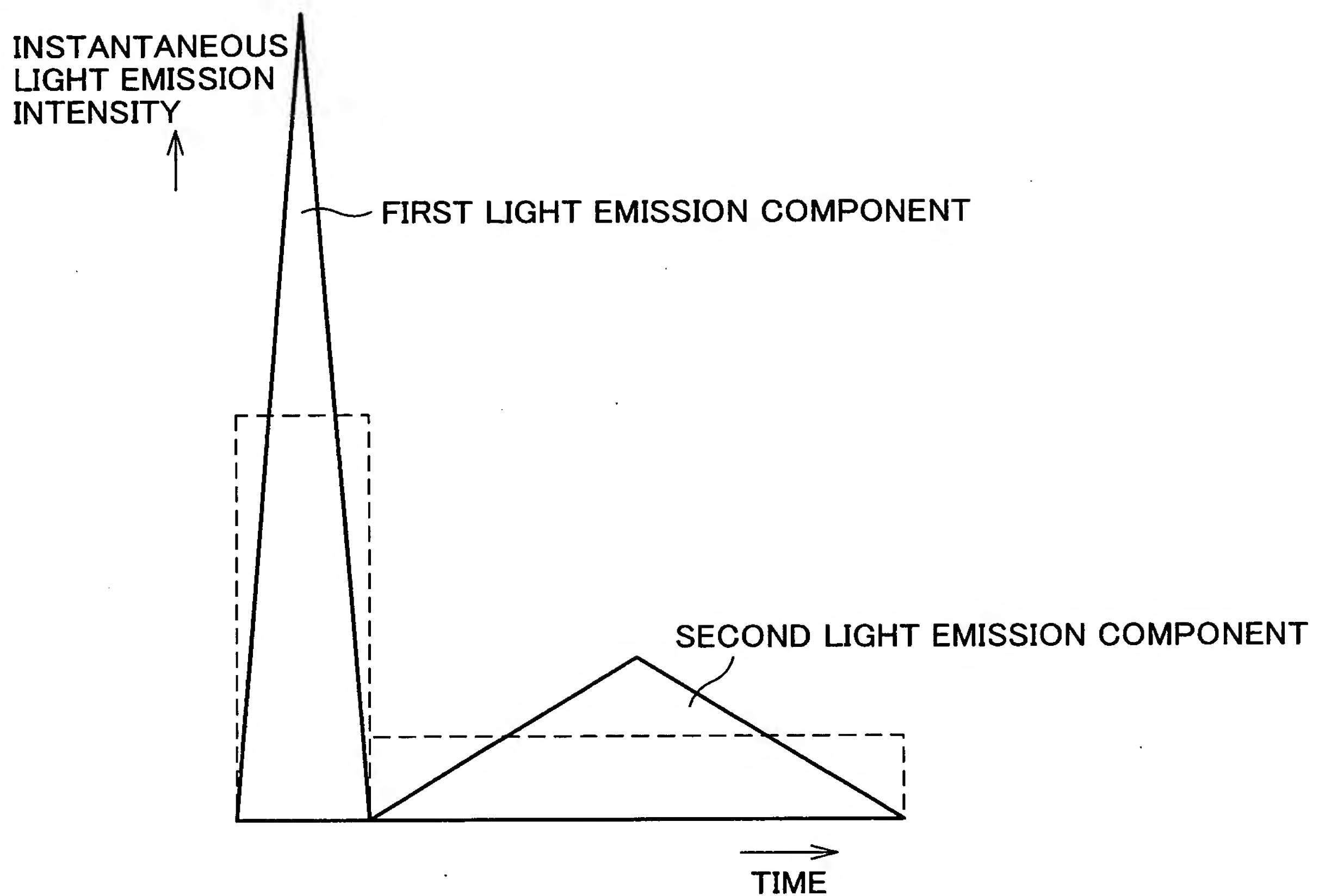
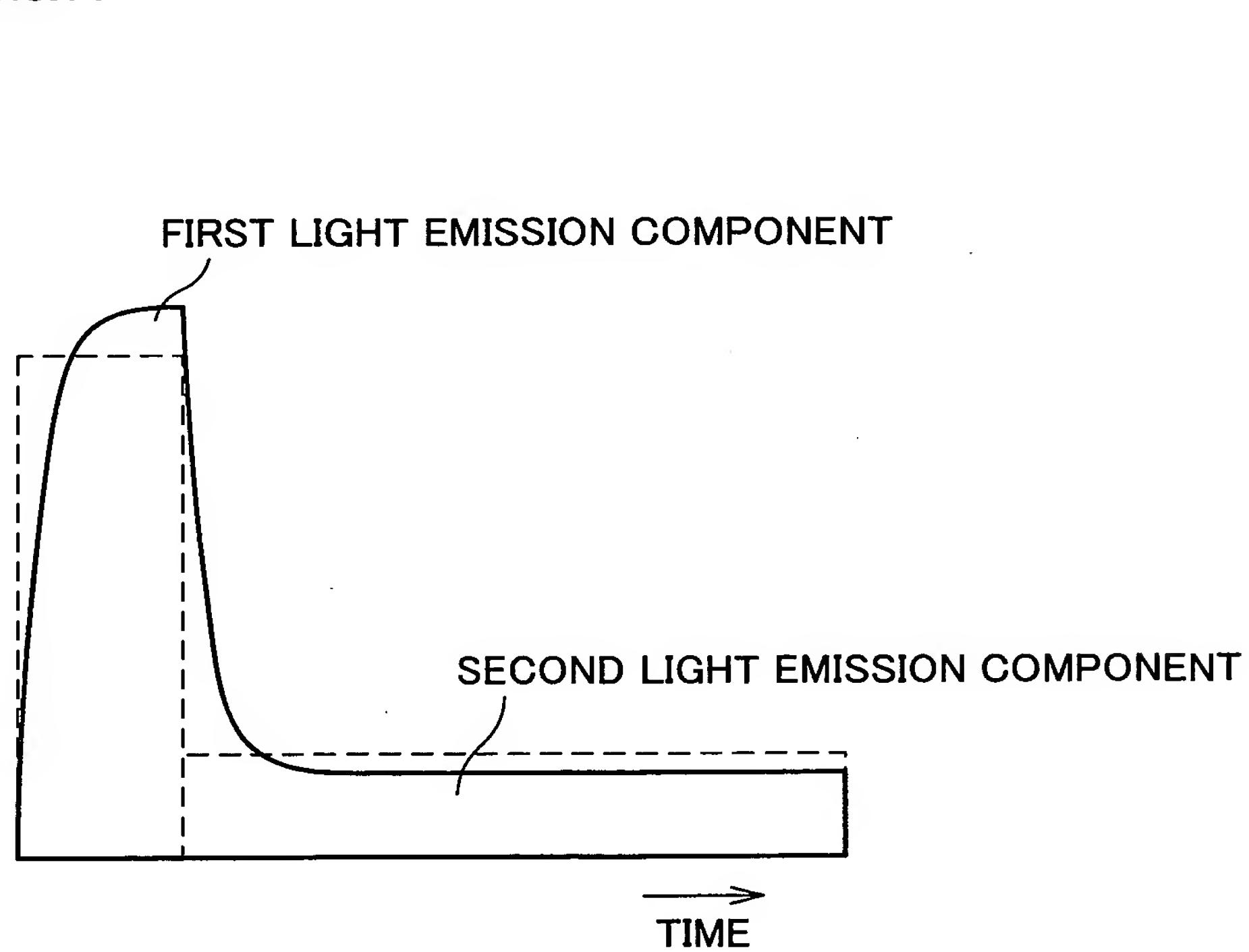
FIG. 19**FIG. 20** INSTANTANEOUS
LIGHT EMISSION
INTENSITY

FIG. 21

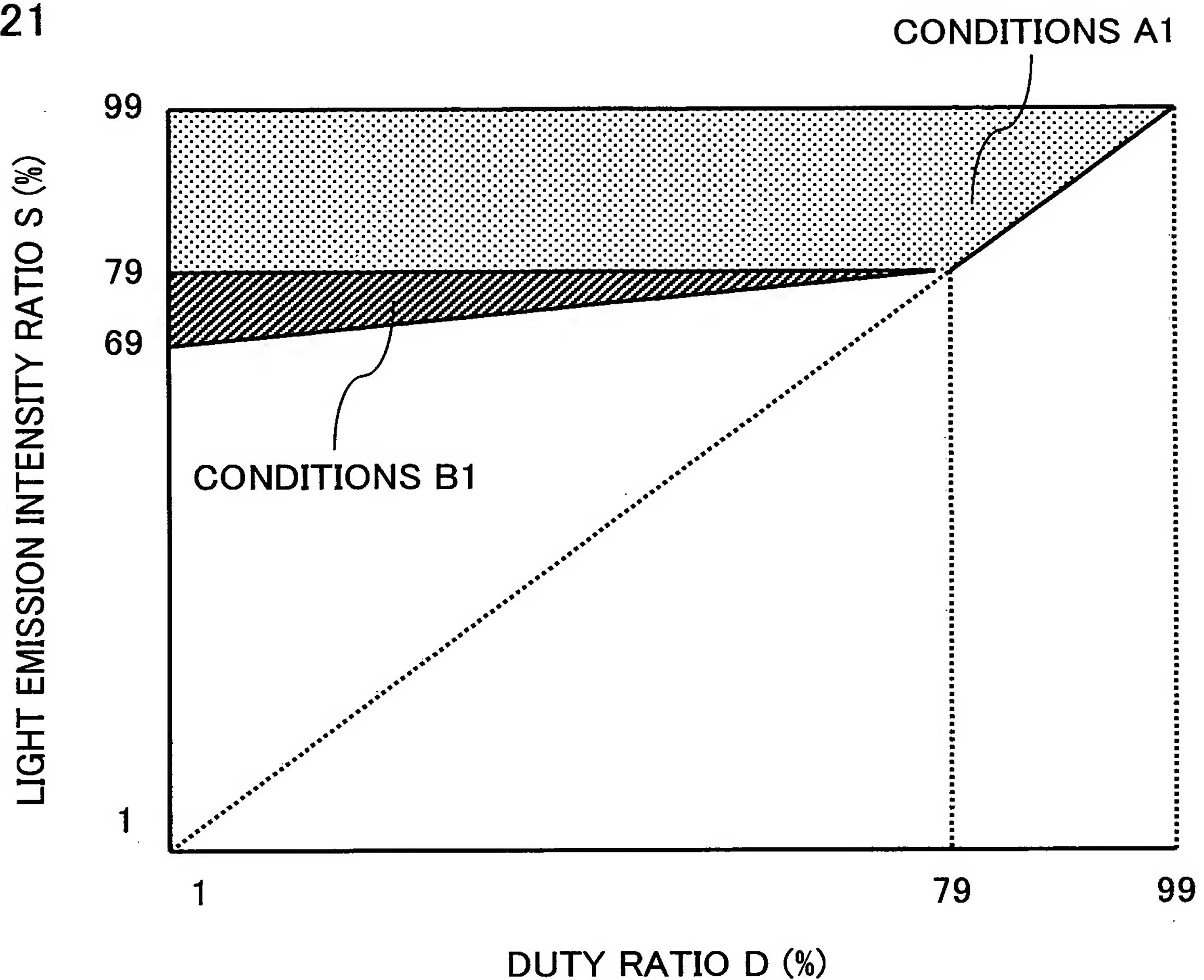


FIG. 22 (a)

RELATIONSHIP BETWEEN AMOUNTS OF
TRAILING AND FLICKERING

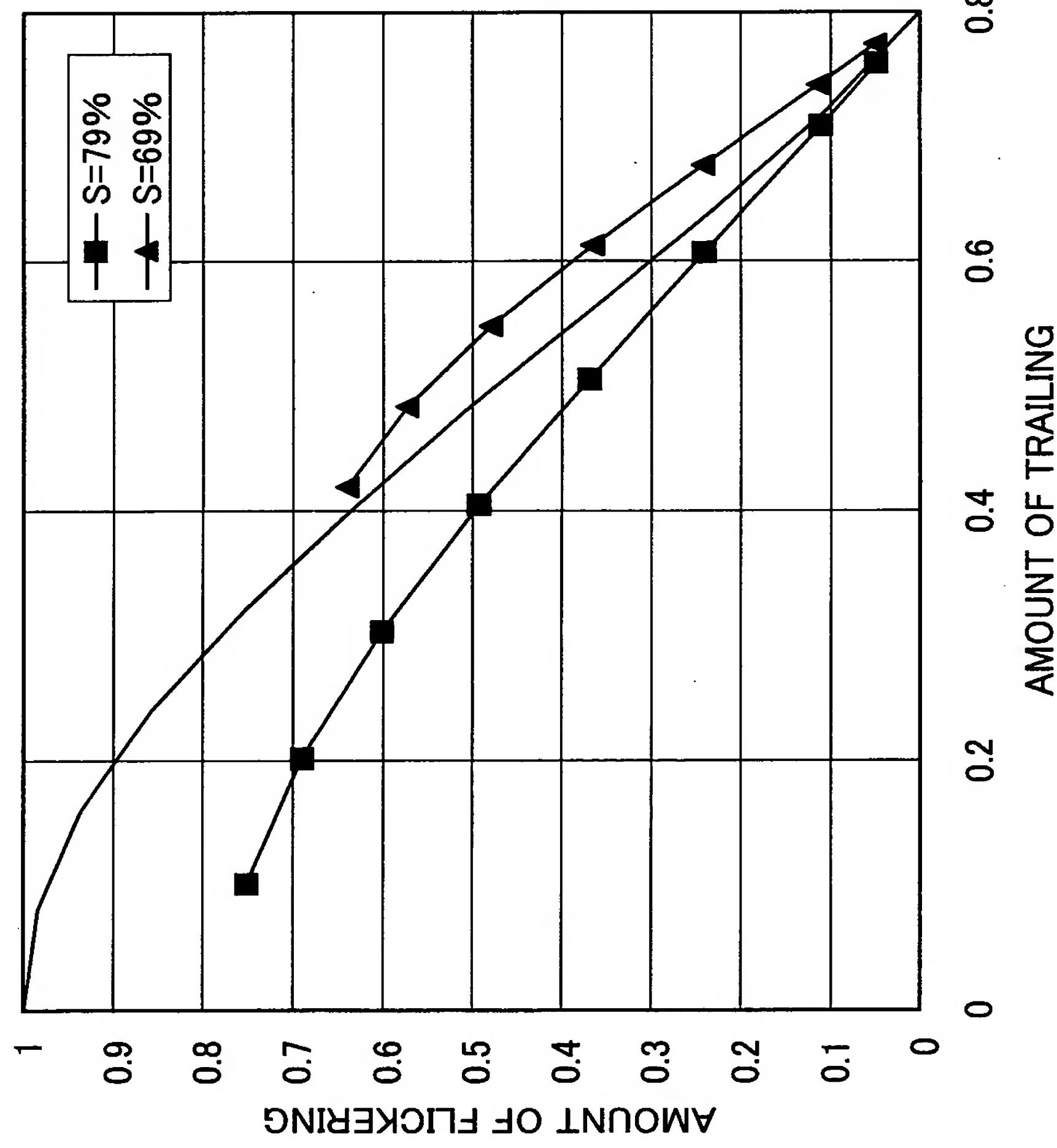


FIG. 22 (b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.42	0.64
20	0.48	0.57
30	0.55	0.48
40	0.61	0.37
50	0.68	0.24
60	0.74	0.11
65	0.77	0.05

S FIXED AT 69%

FIG. 22 (c)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.10	0.75
20	0.20	0.69
30	0.30	0.60
40	0.41	0.49
50	0.51	0.37
60	0.61	0.24
70	0.71	0.11
75	0.76	0.05

S FIXED AT 79%

FIG. 23 (a)

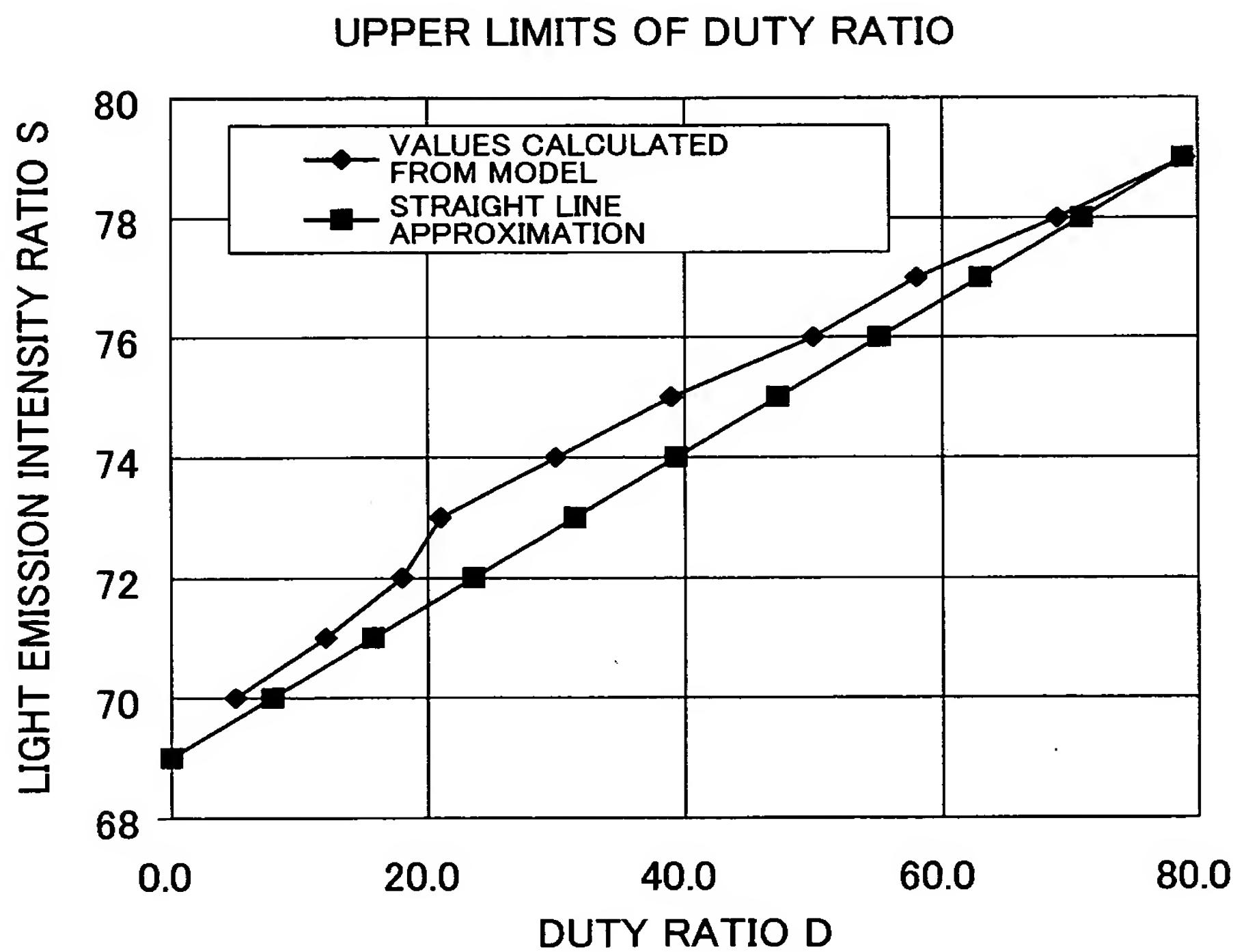


FIG. 23 (b)

LIGHT EMISSION INTENSITY RATIO S	DUTY RATIO D
70	5.0
71	12.0
72	18.0
73	21.0
74	30.0
75	39.0
76	50.0
77	58.0
78	69.0
79	78.9

VALUES CALCULATED FROM MODEL

FIG. 24

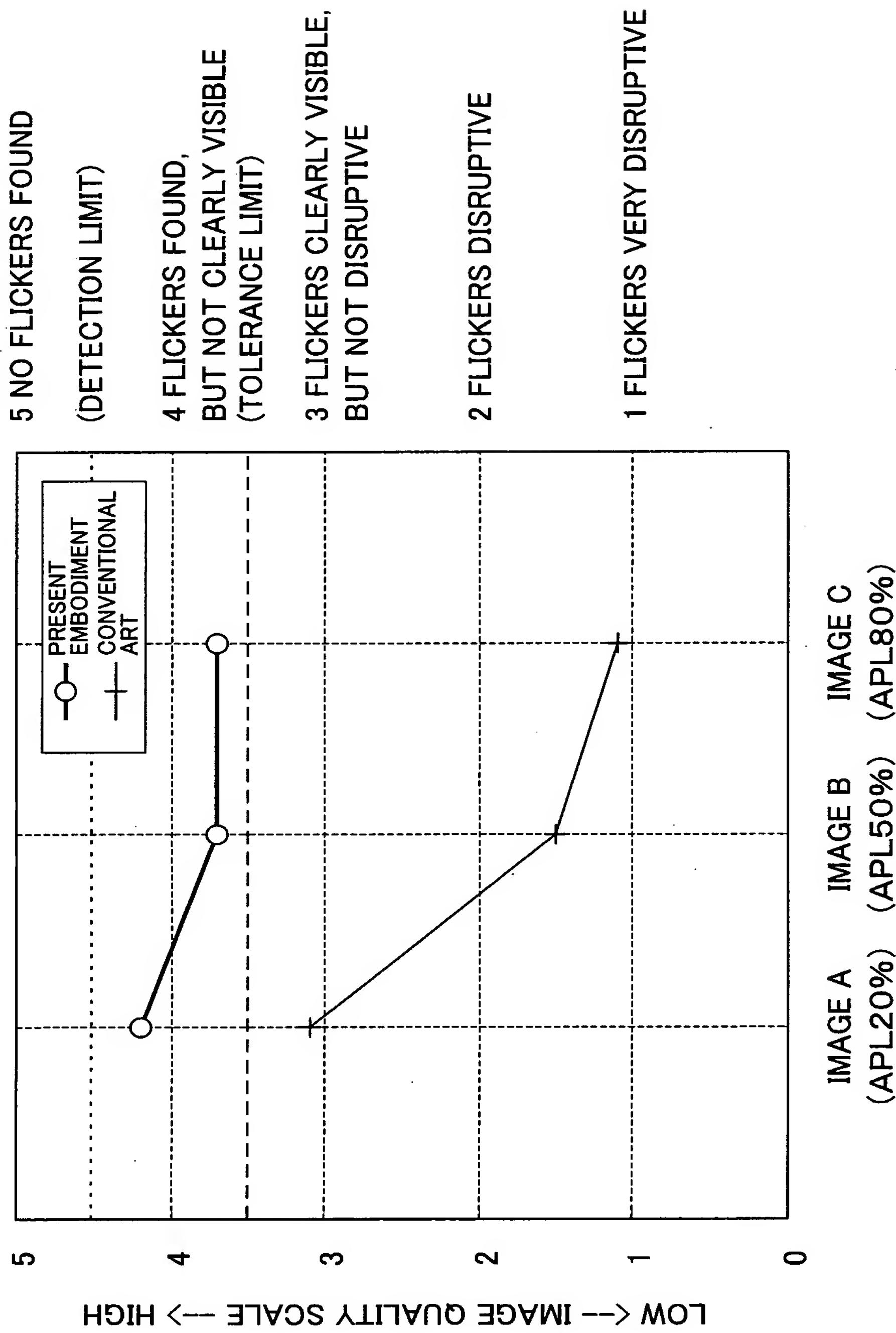
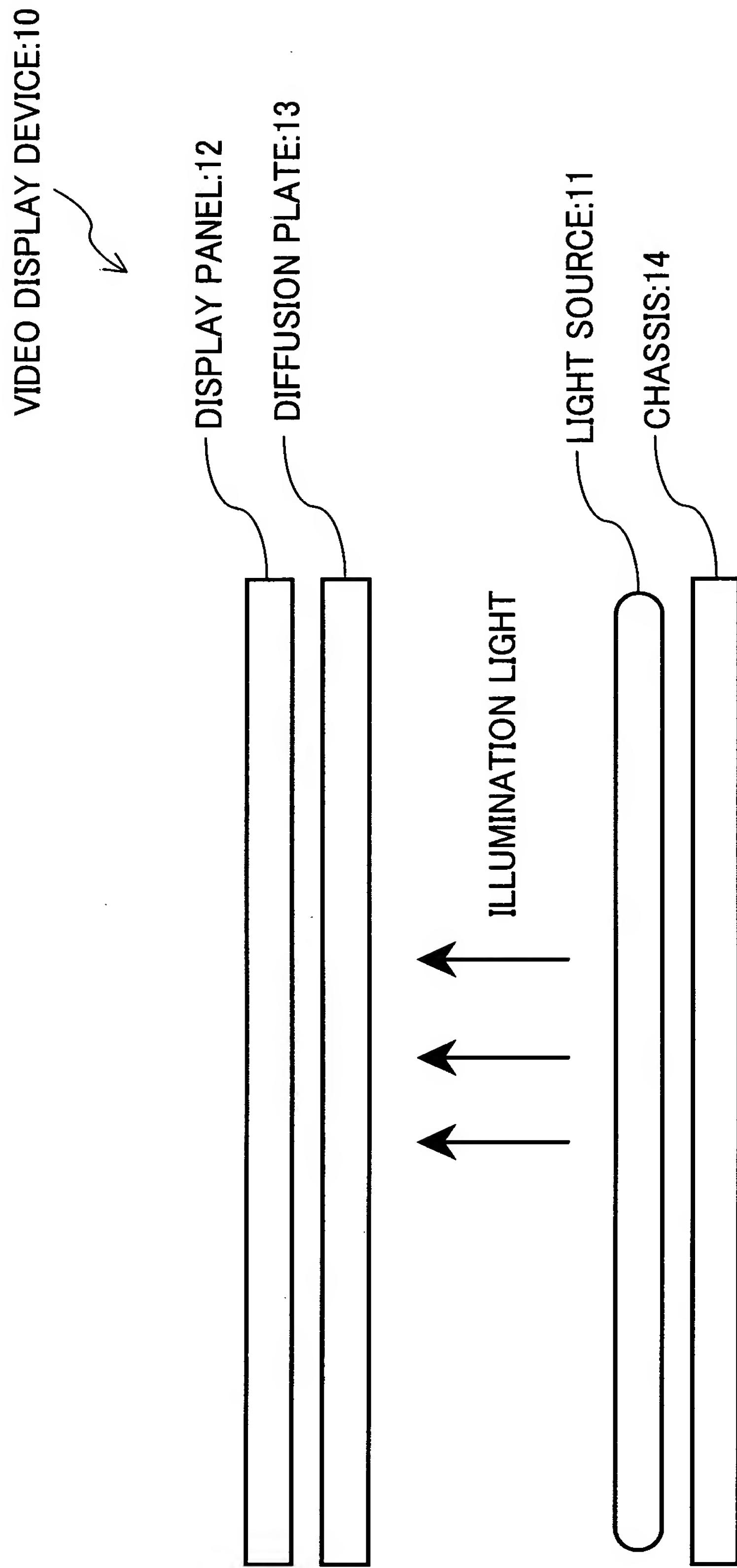


FIG. 25



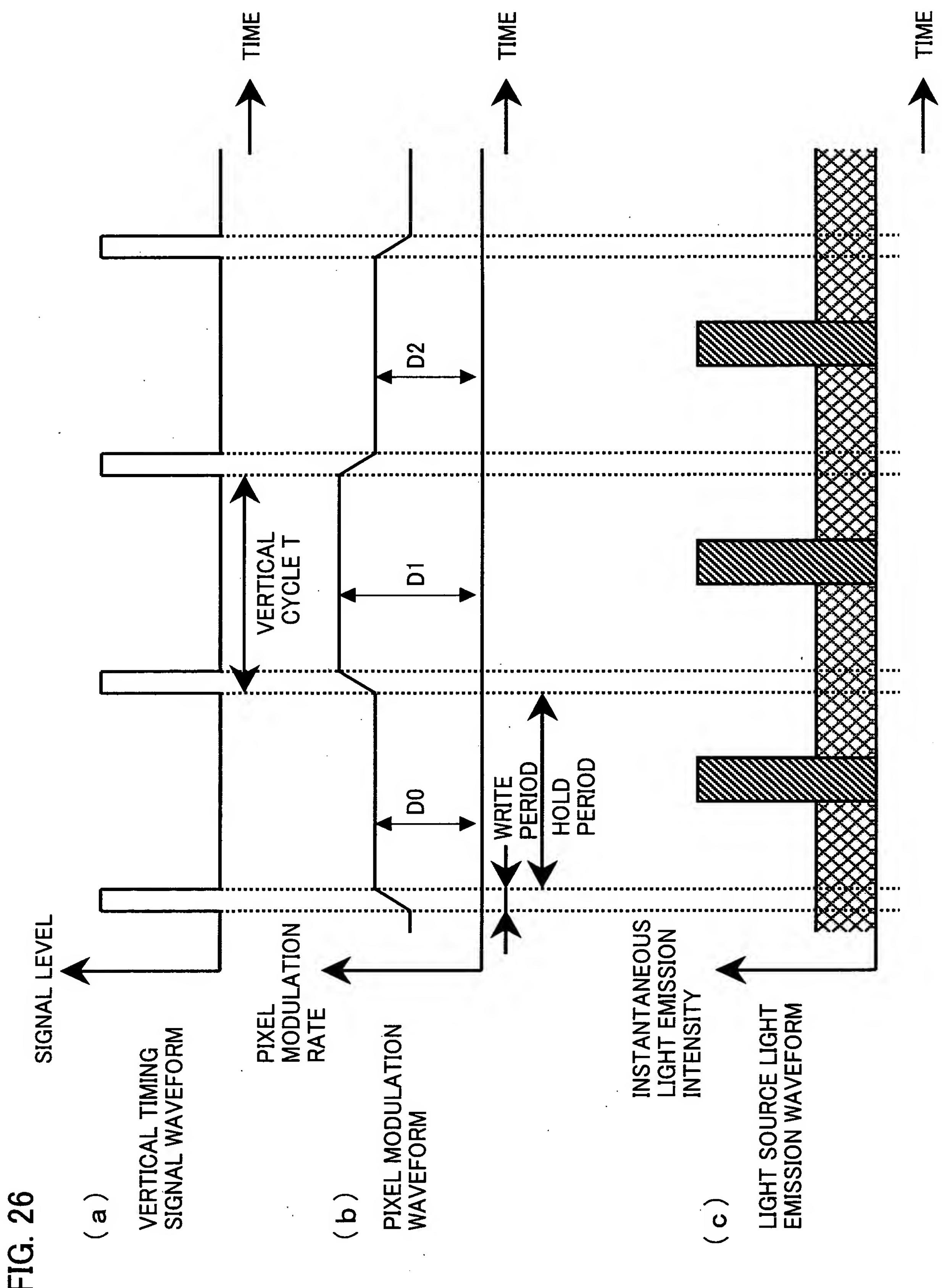
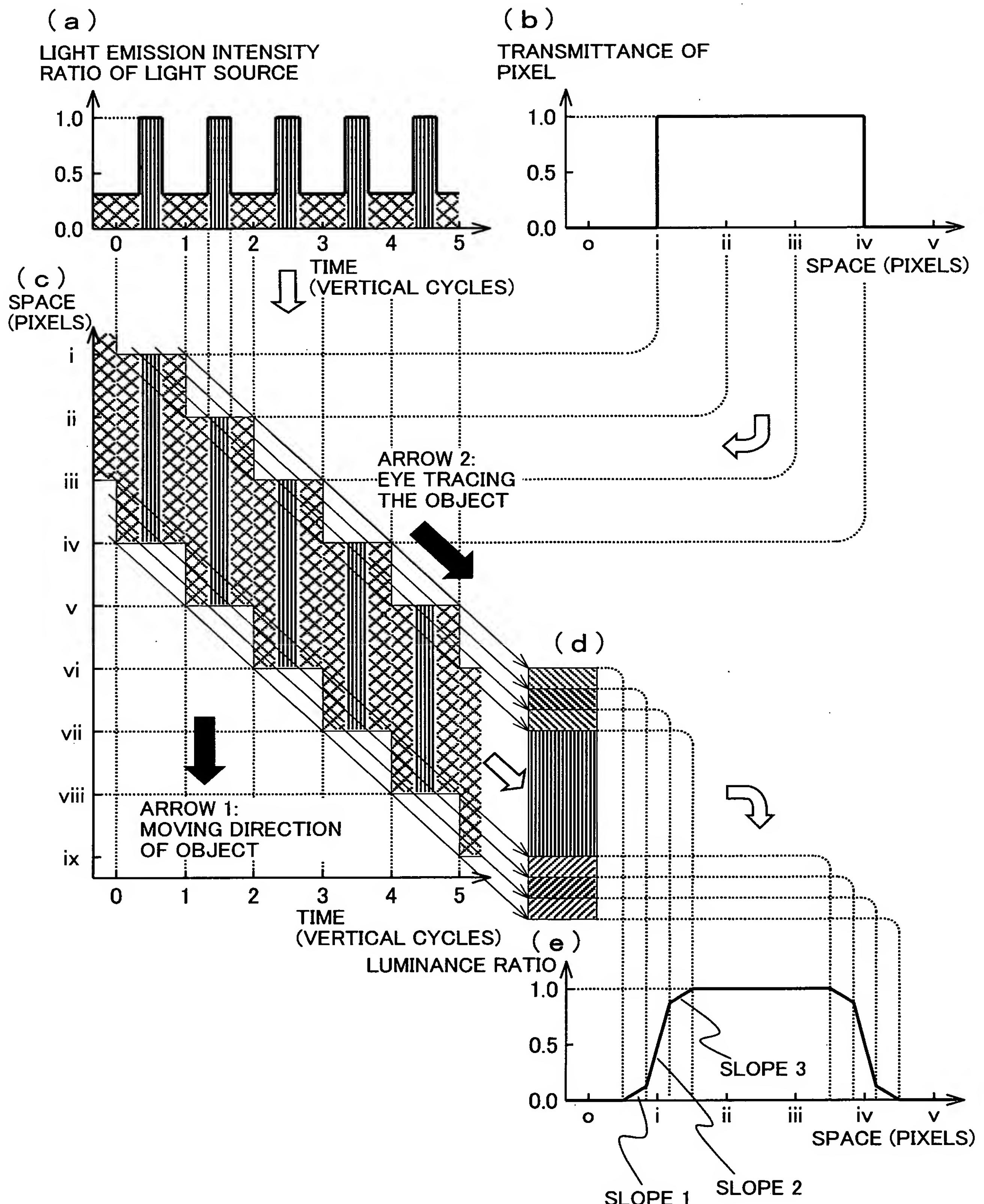
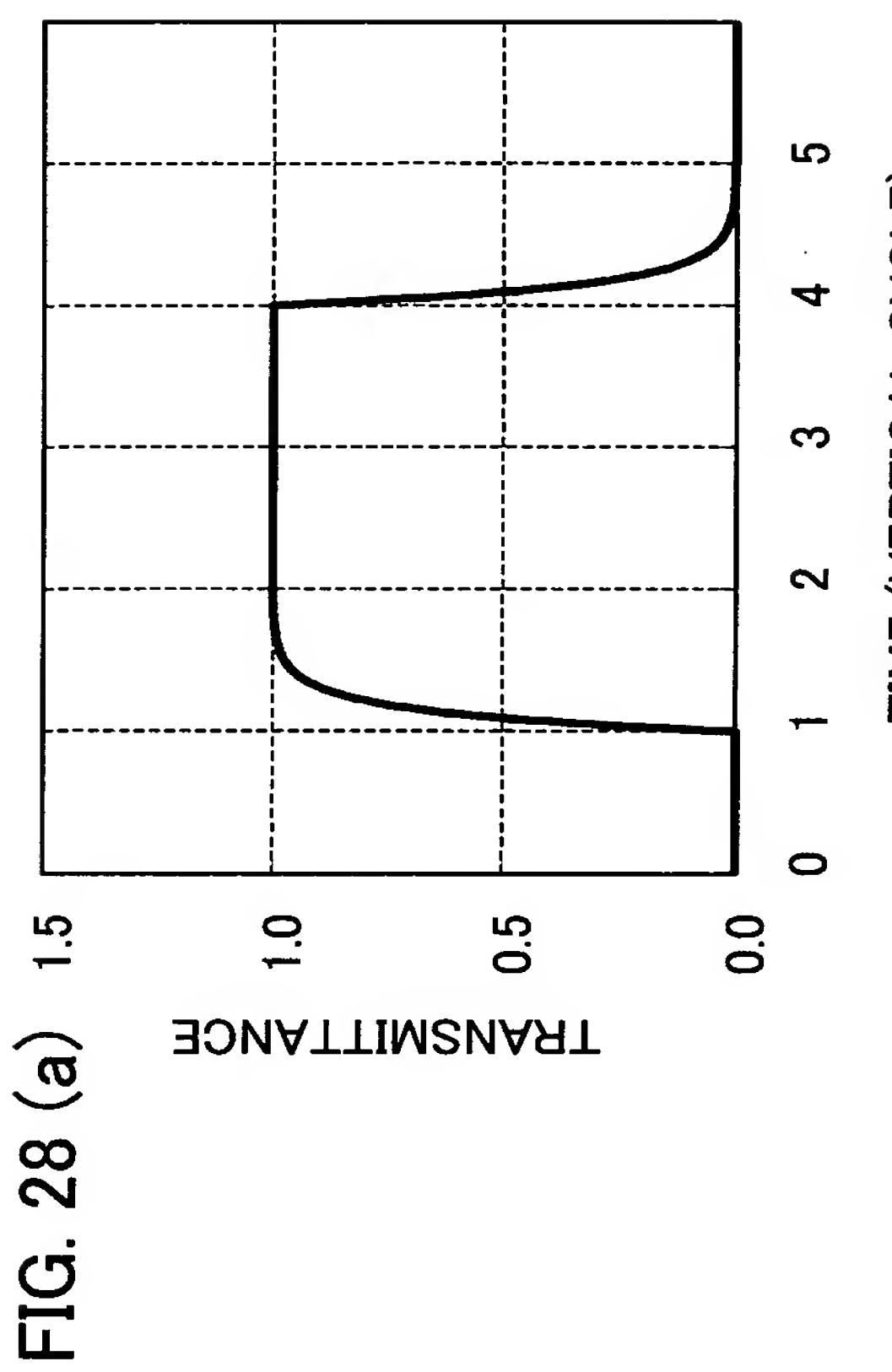
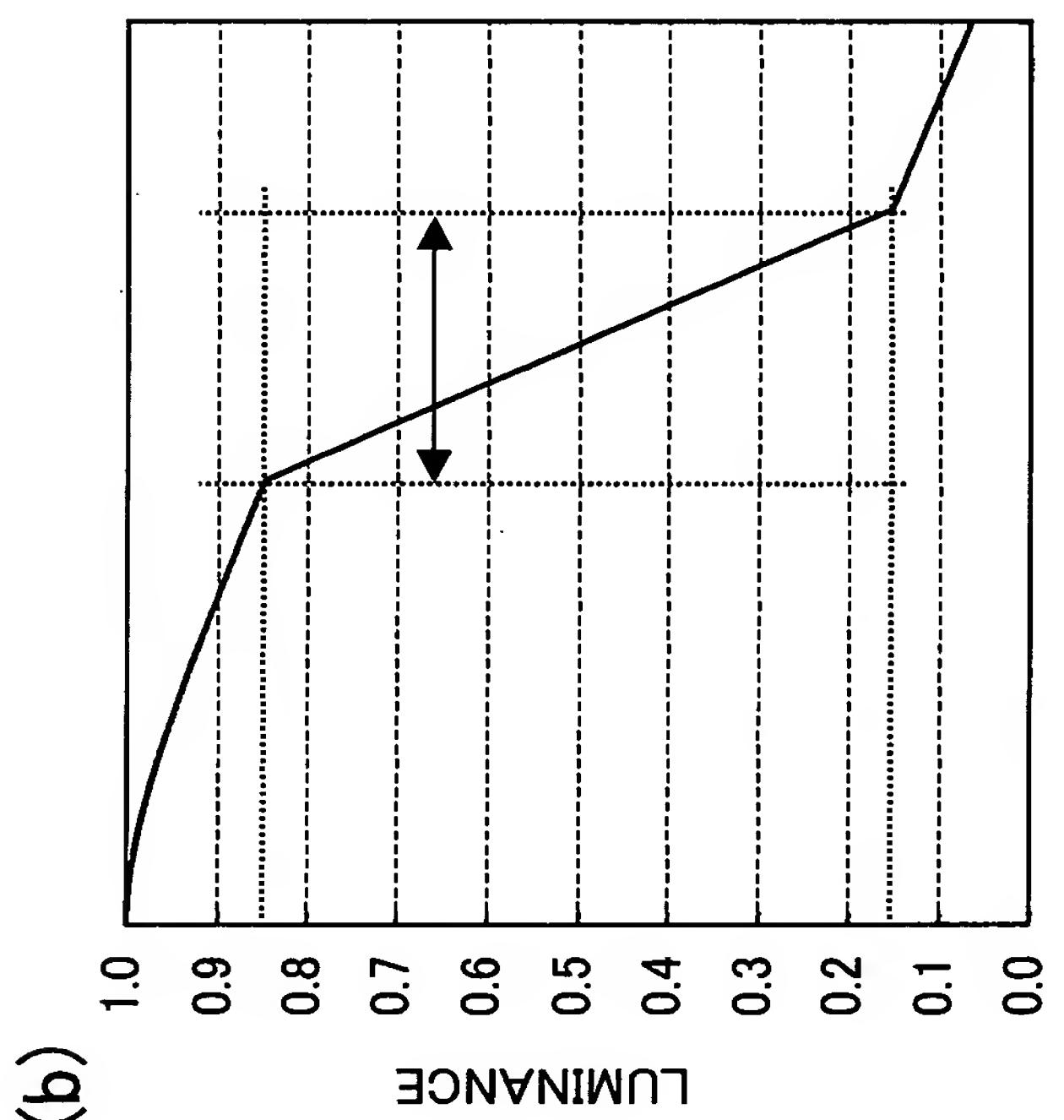
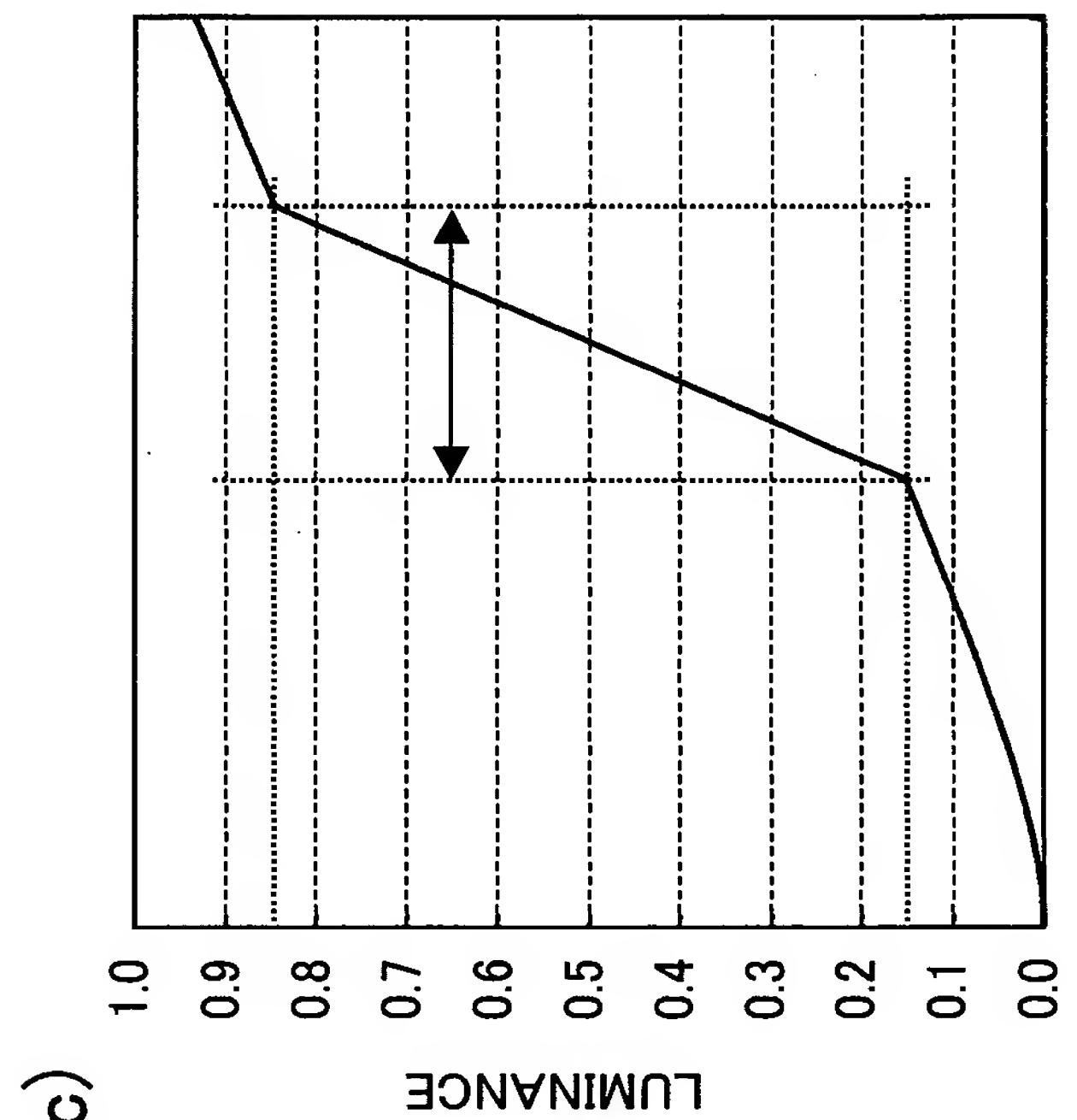


FIG. 27.



**FIG. 28 (b)****FIG. 28 (c)**

SPACE (PIXELS)

FIG. 29

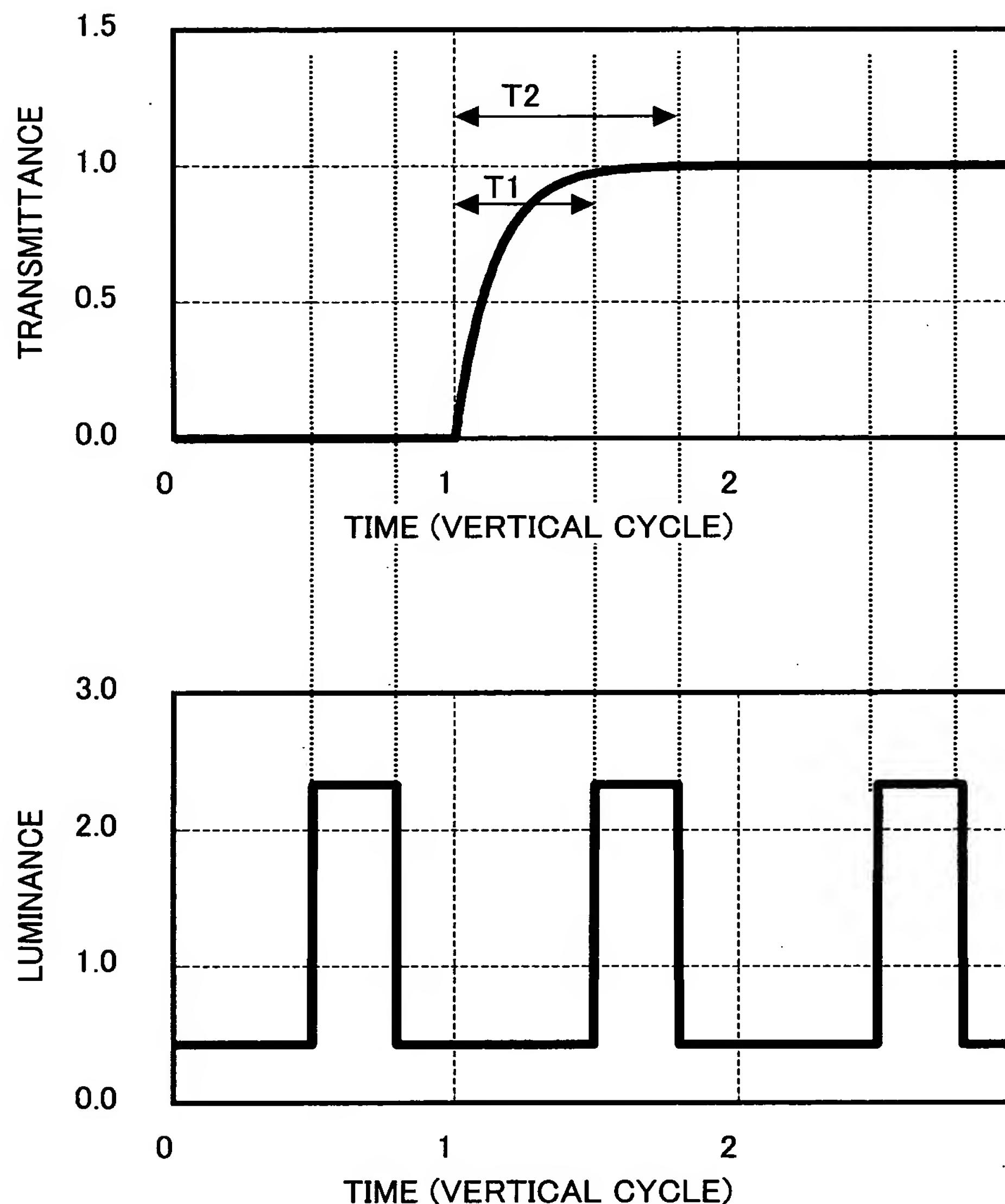


FIG. 30 (a)

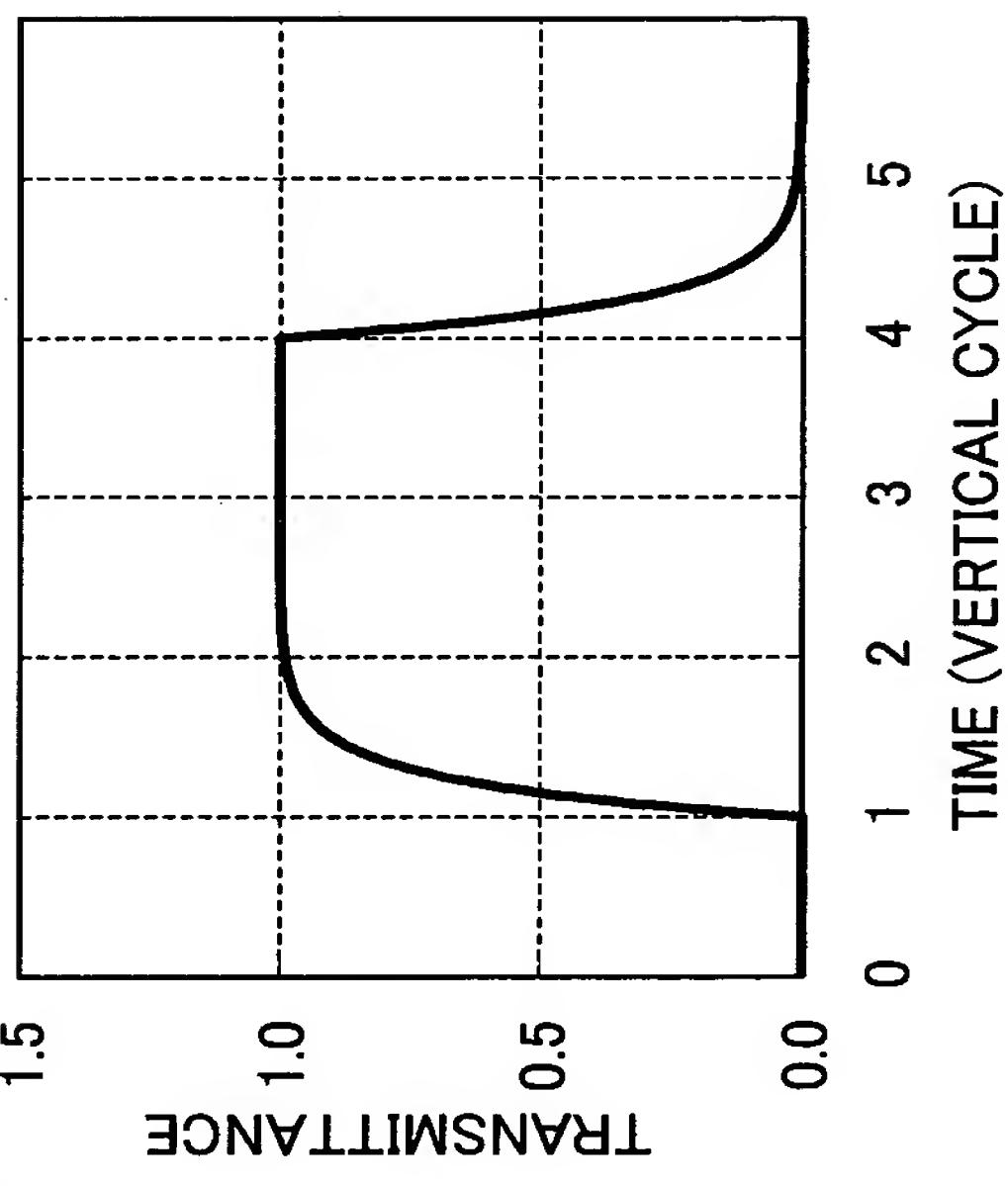


FIG. 30 (b)

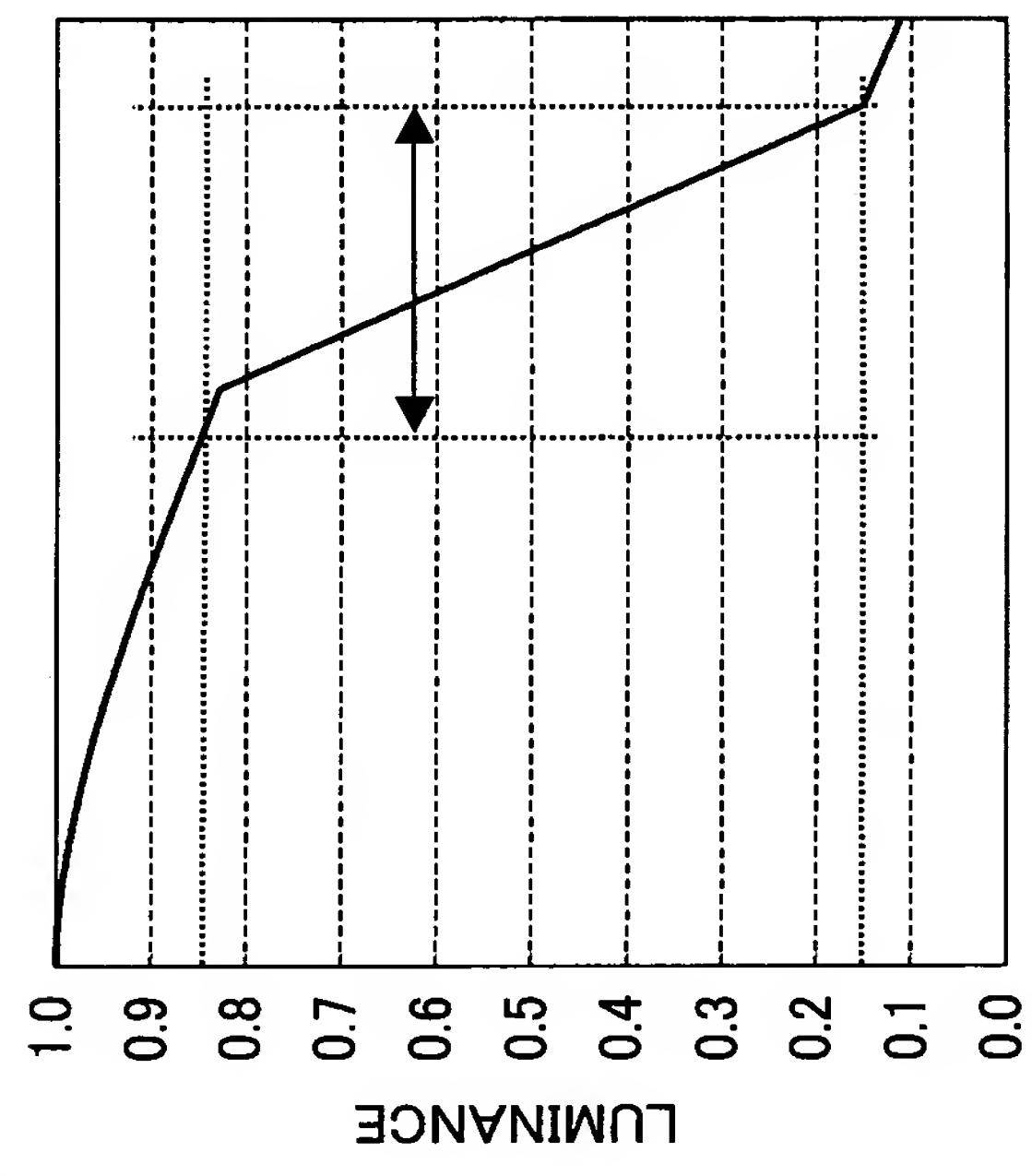


FIG. 30 (c)

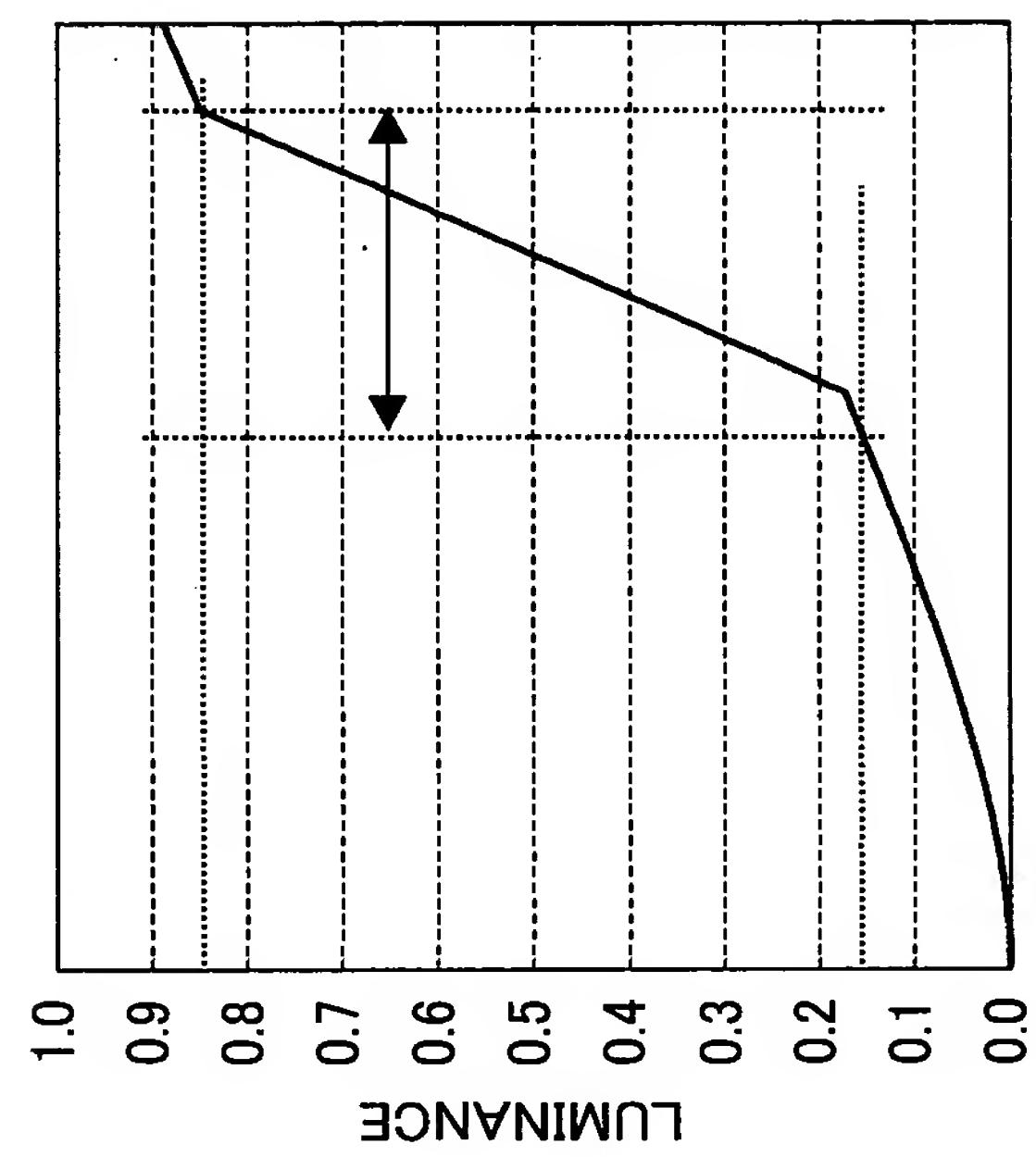


FIG. 31

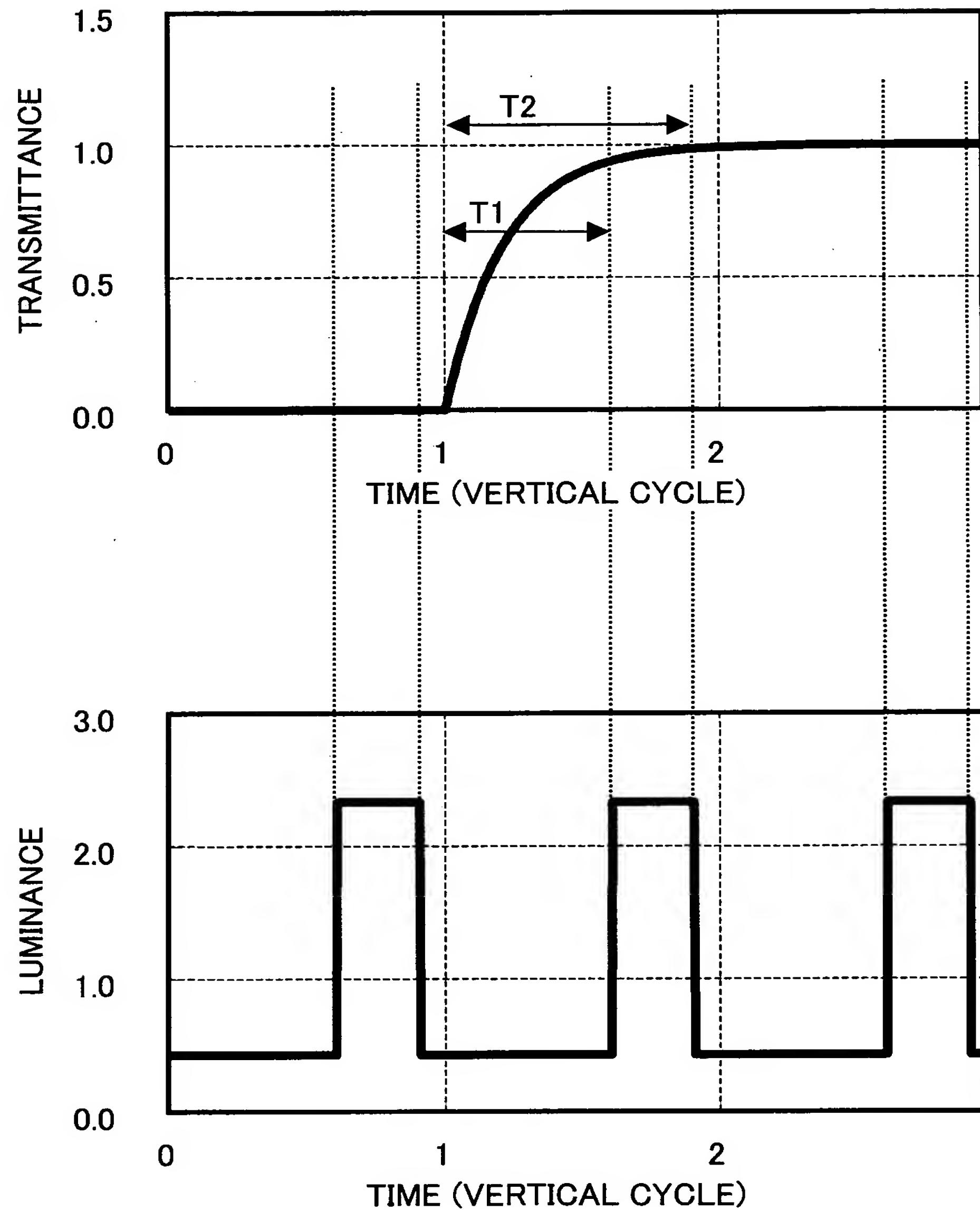


FIG. 32

20

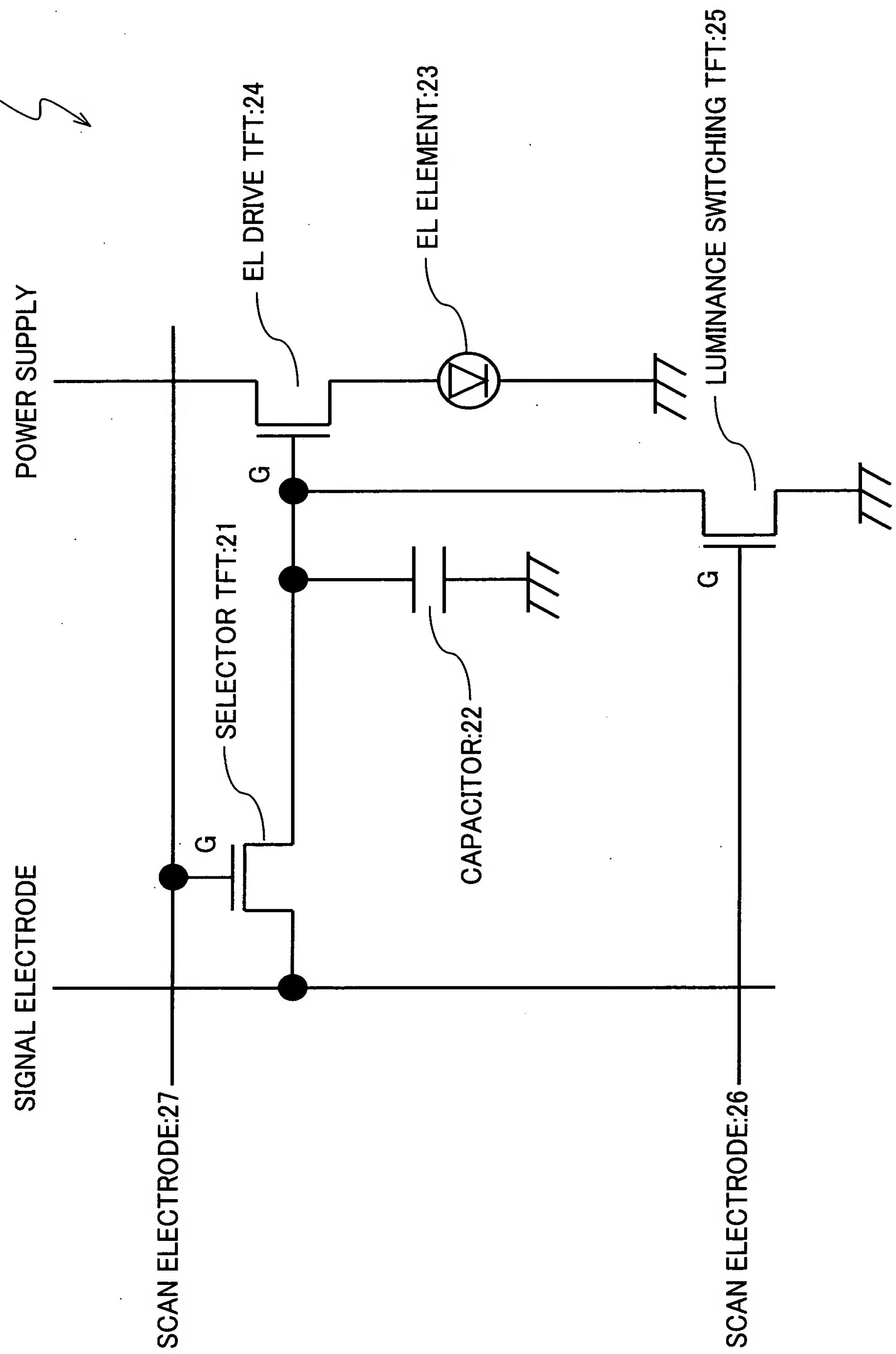
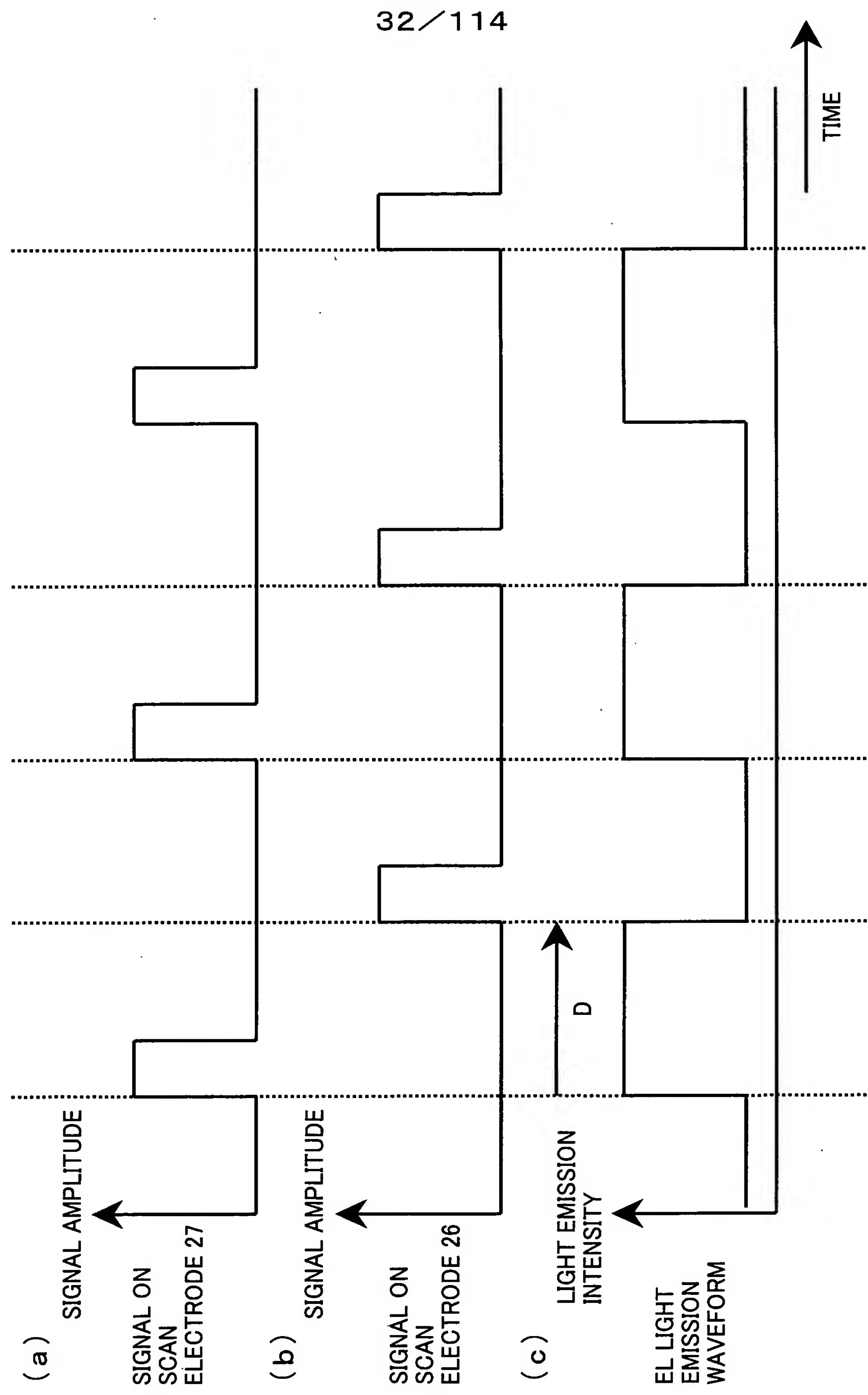


FIG. 33



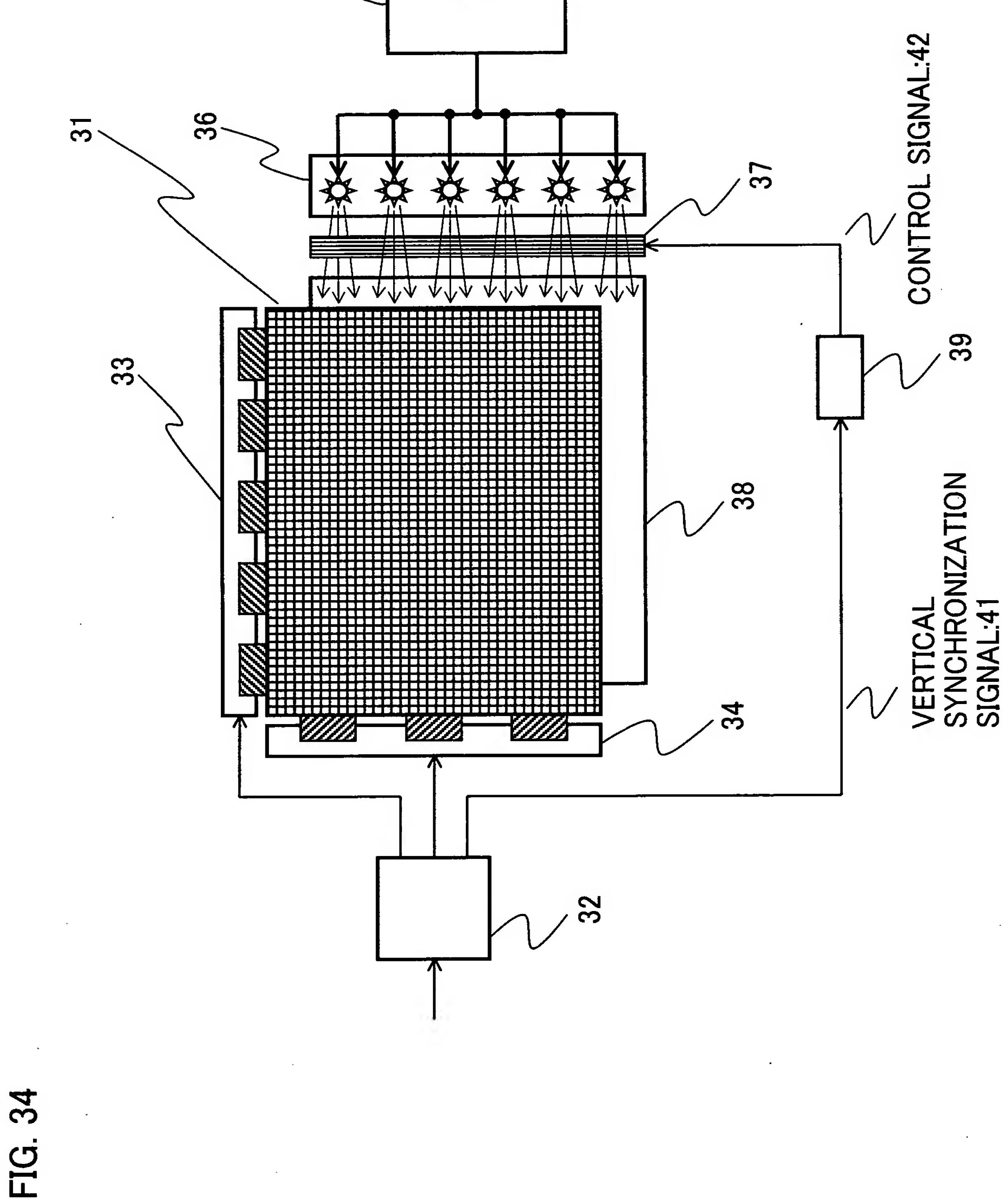
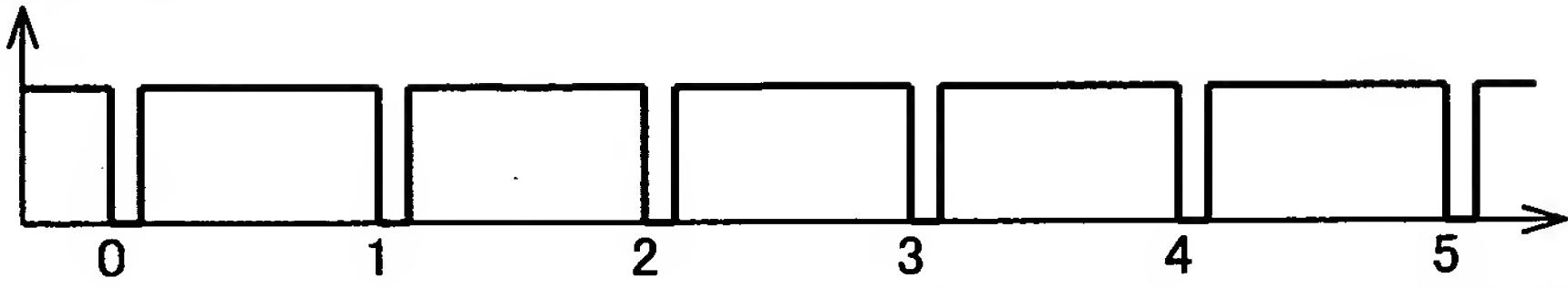
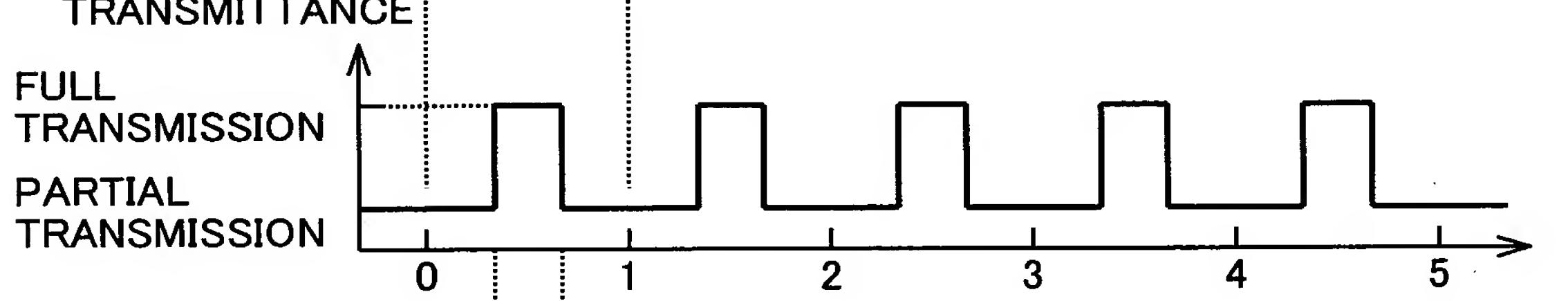


FIG. 35

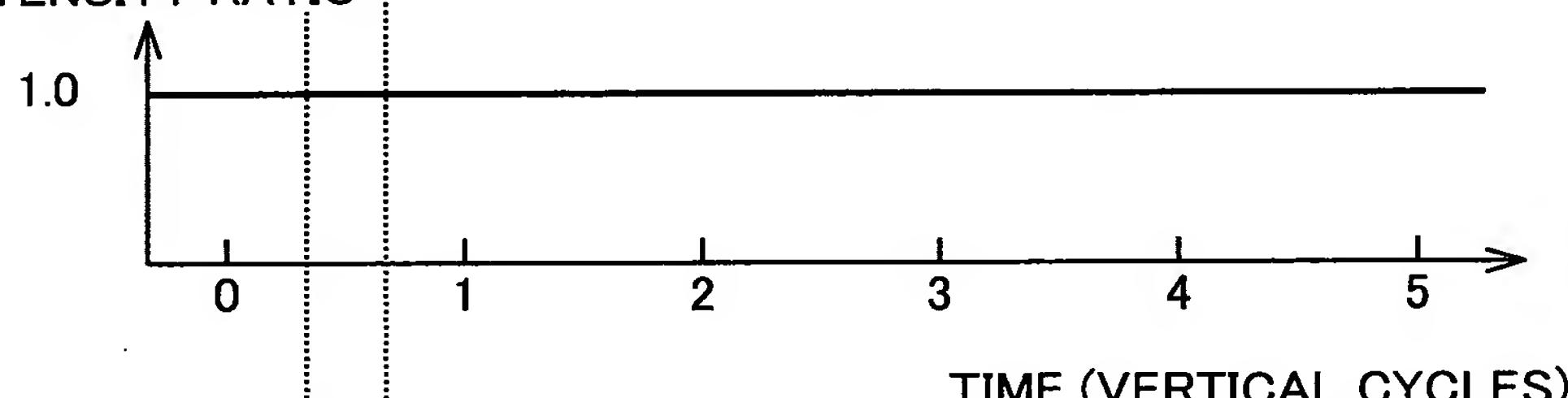
(a) AMPLITUDE



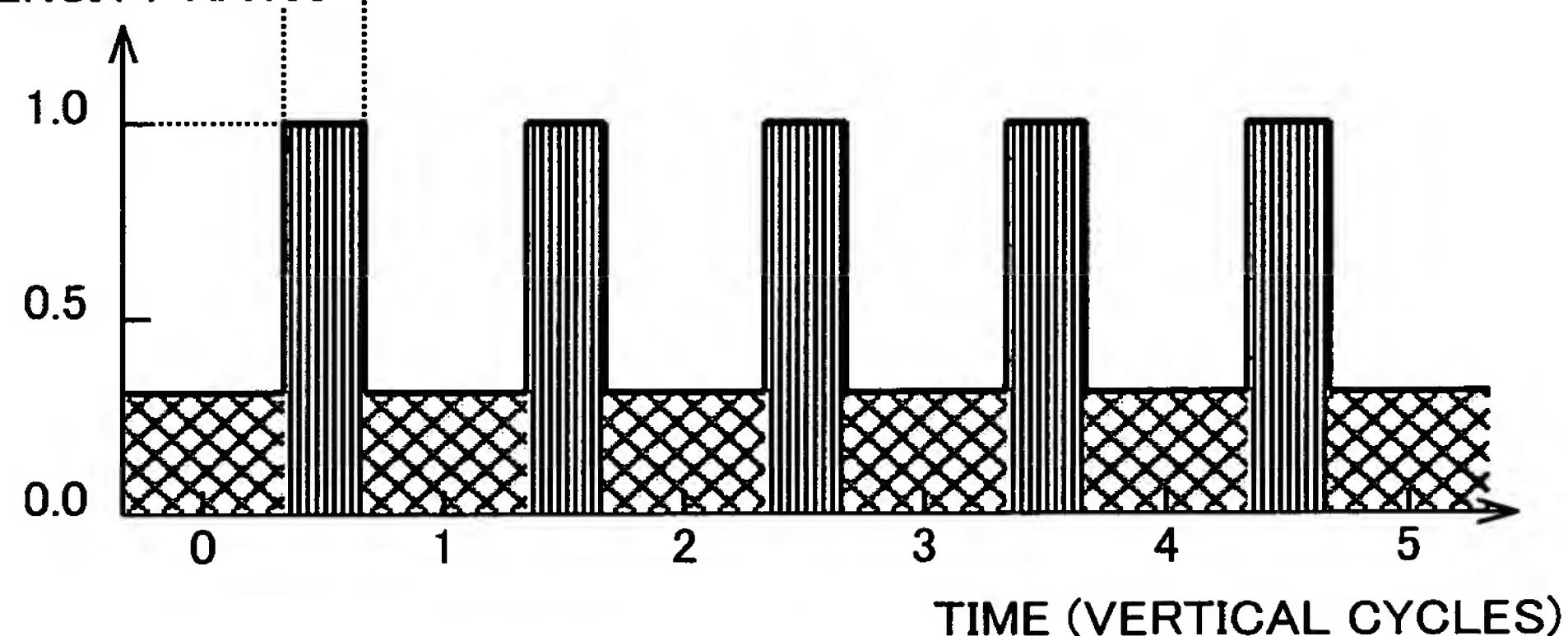
(b) TRANSMITTANCE



(c) LIGHT EMISSION INTENSITY RATIO



(d) LIGHT EMISSION INTENSITY RATIO



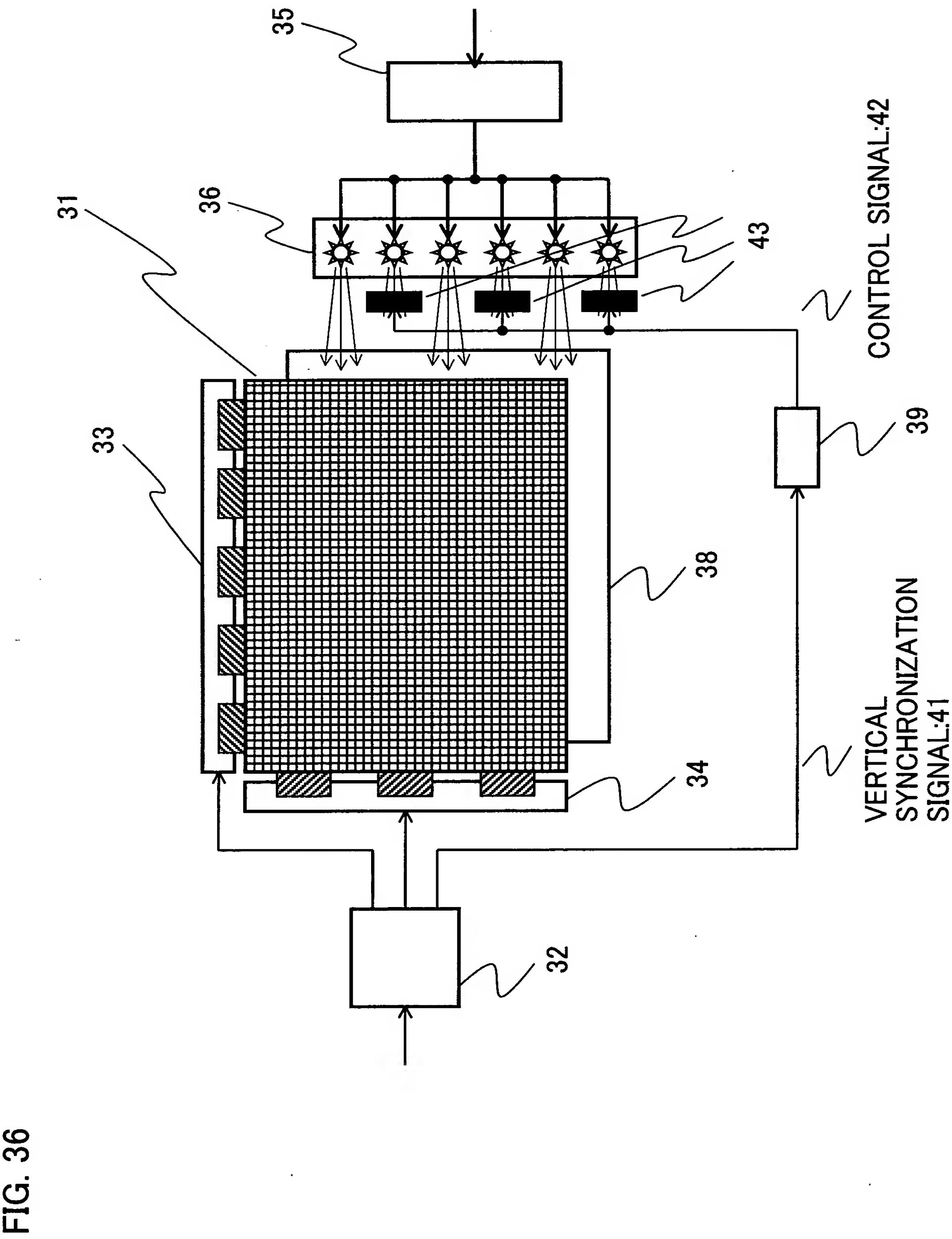


FIG. 37

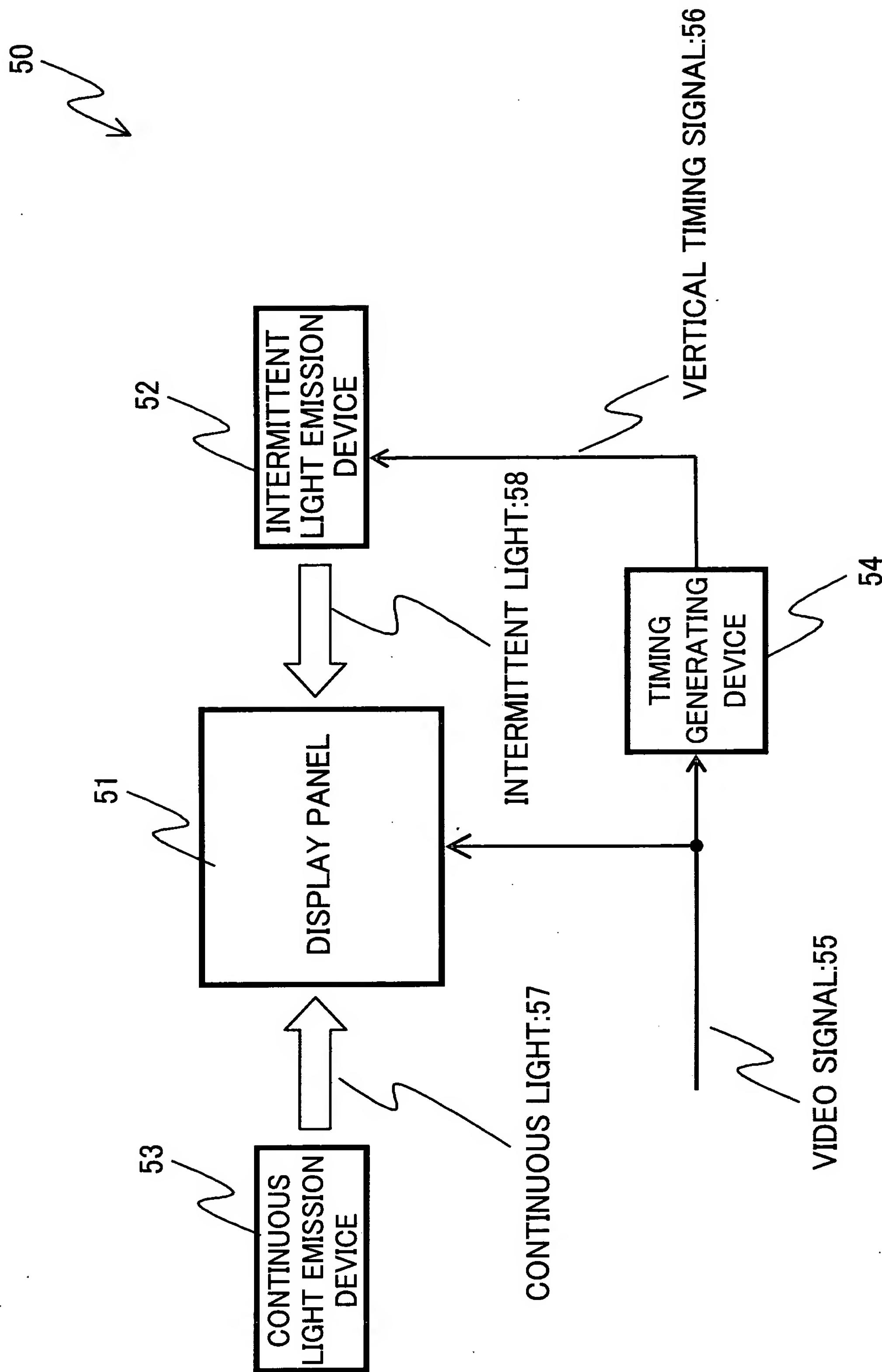


FIG. 38

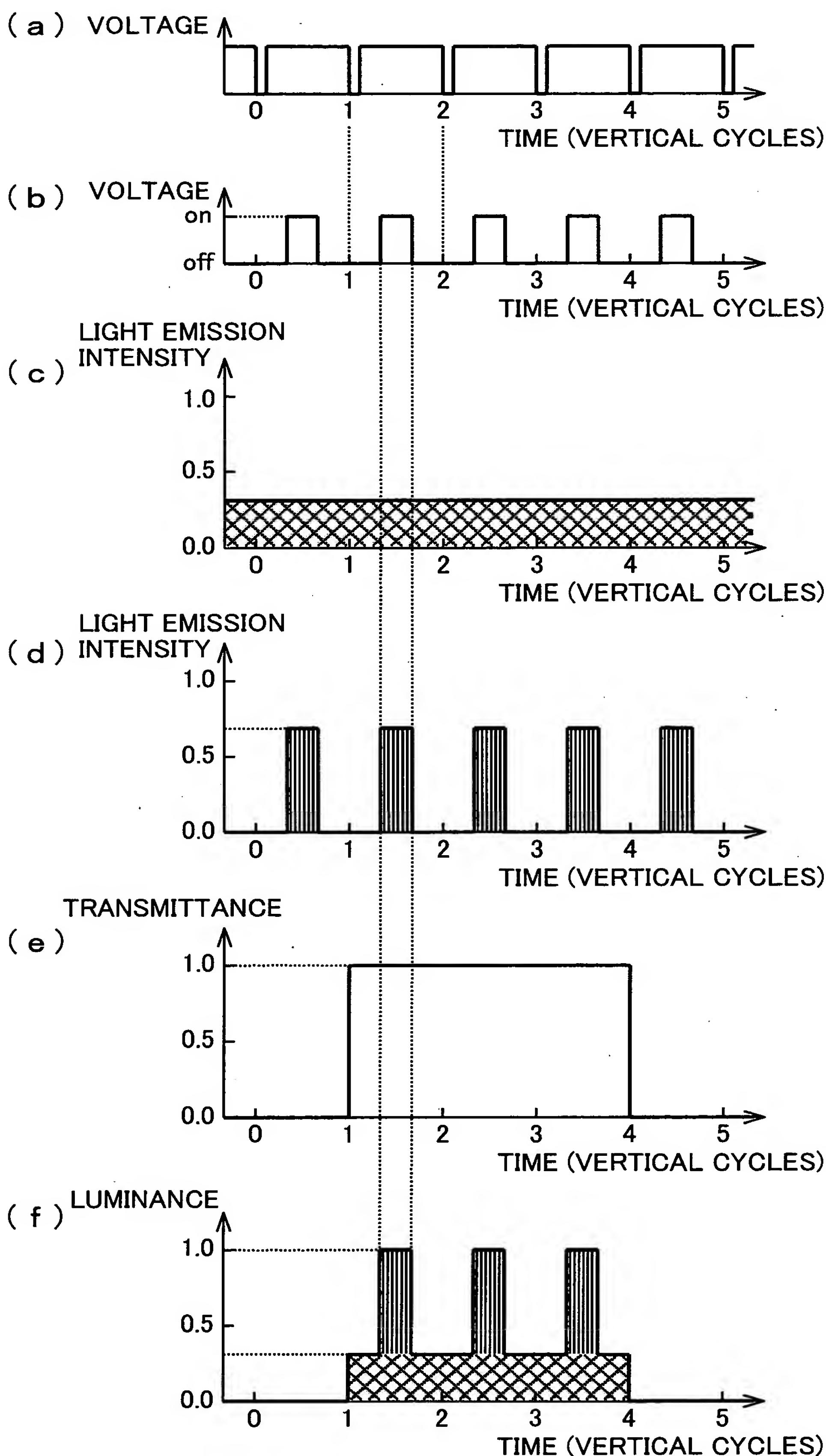


FIG. 39 (a)

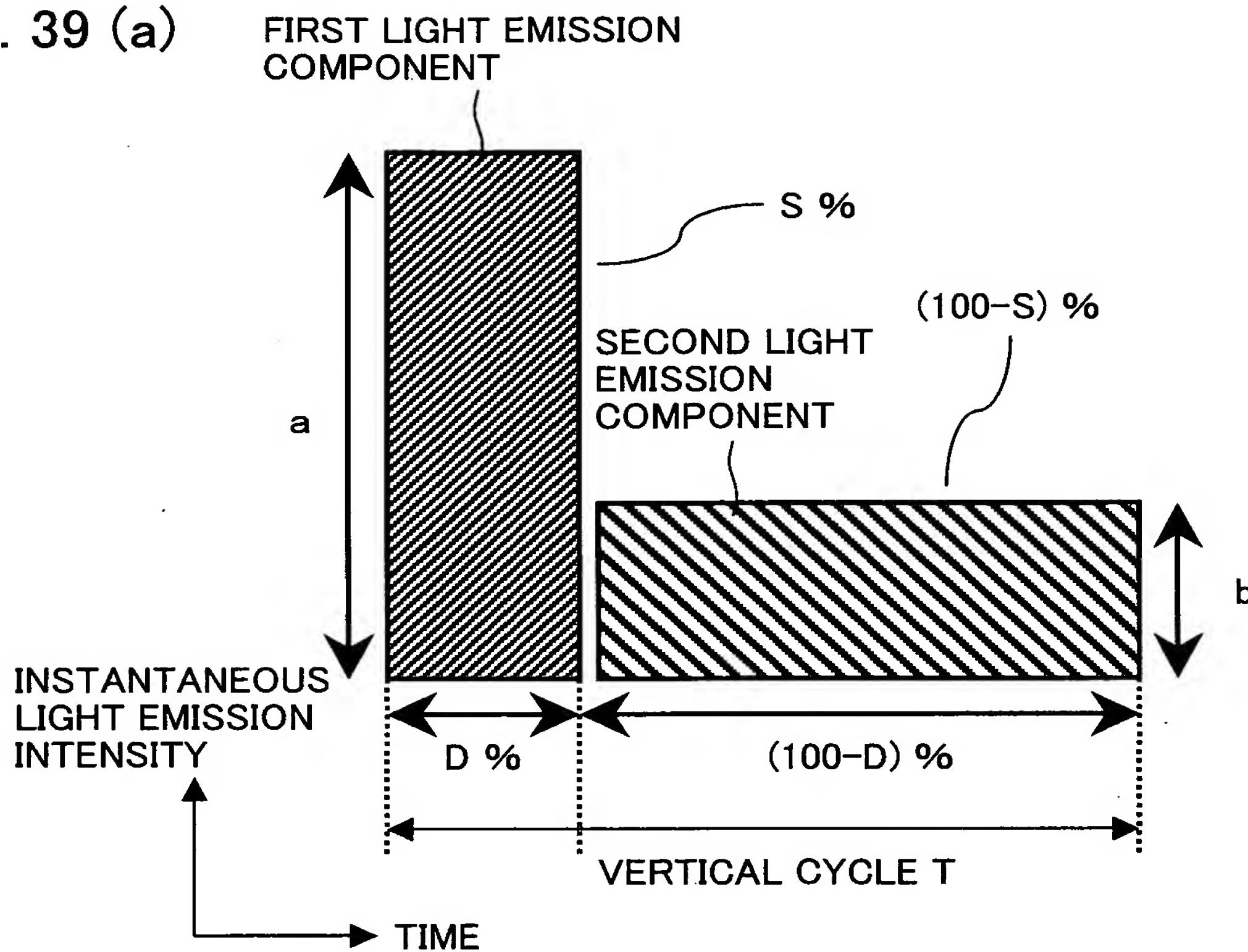


FIG. 39 (b)

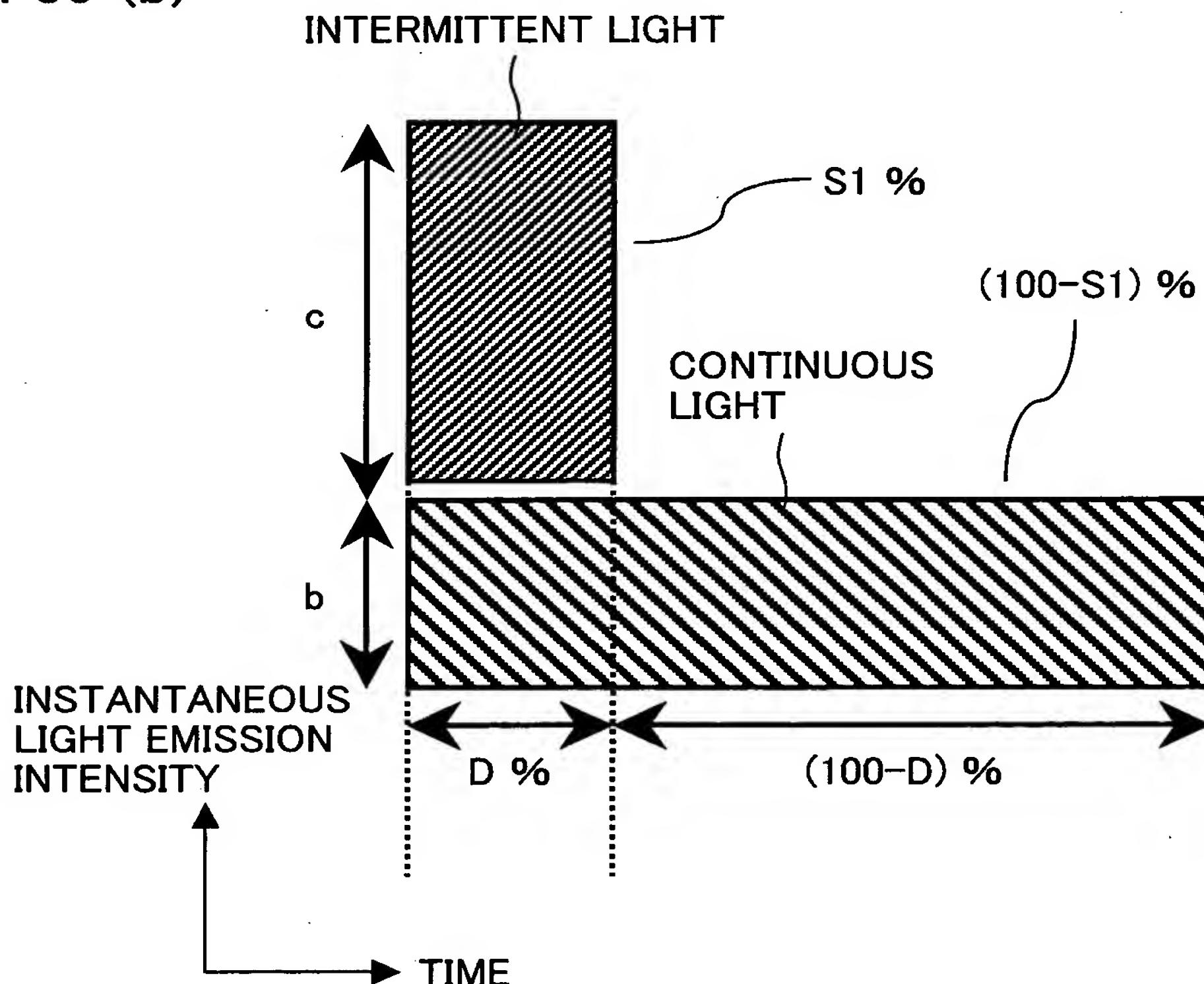


FIG. 40

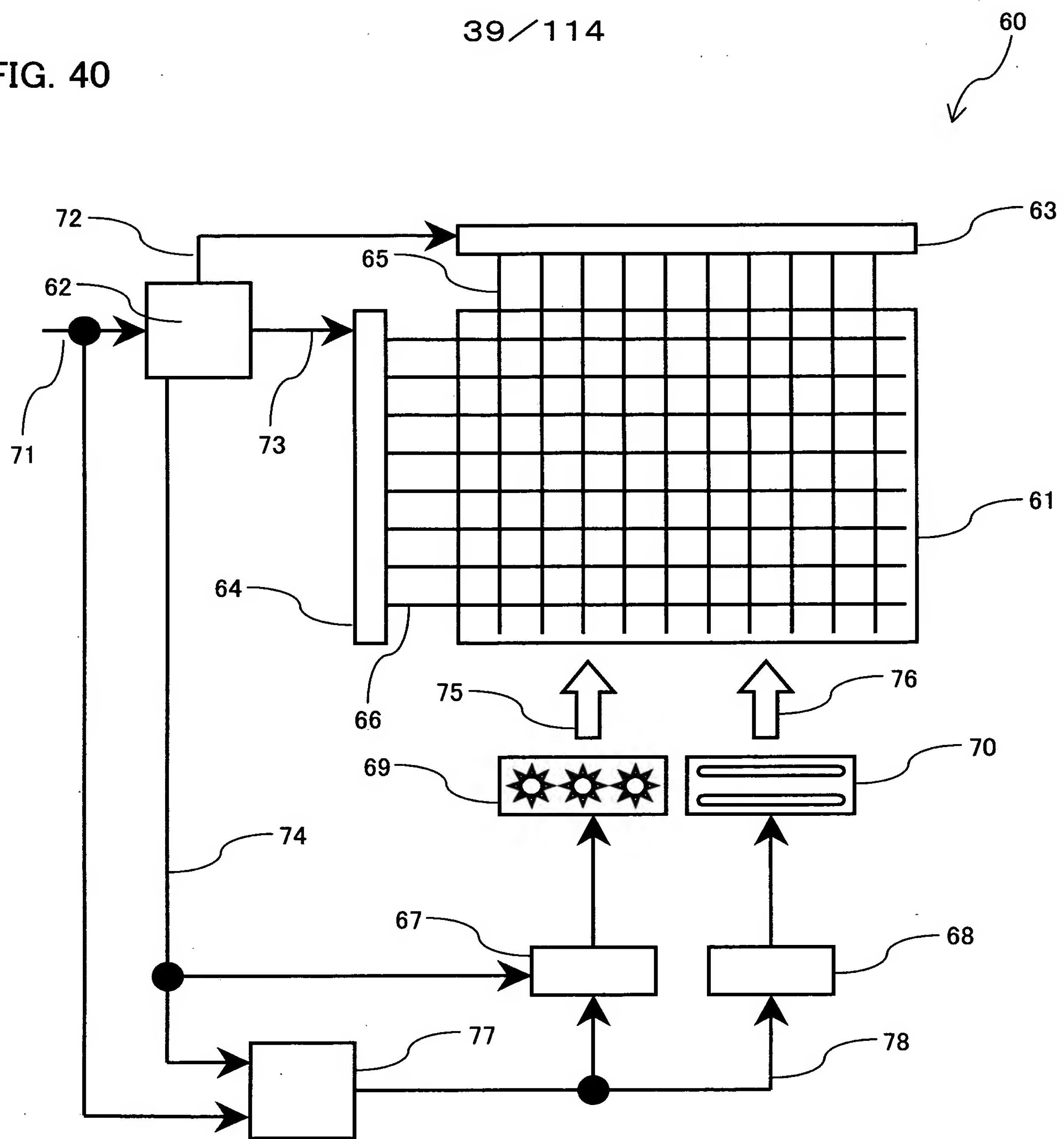


FIG. 41

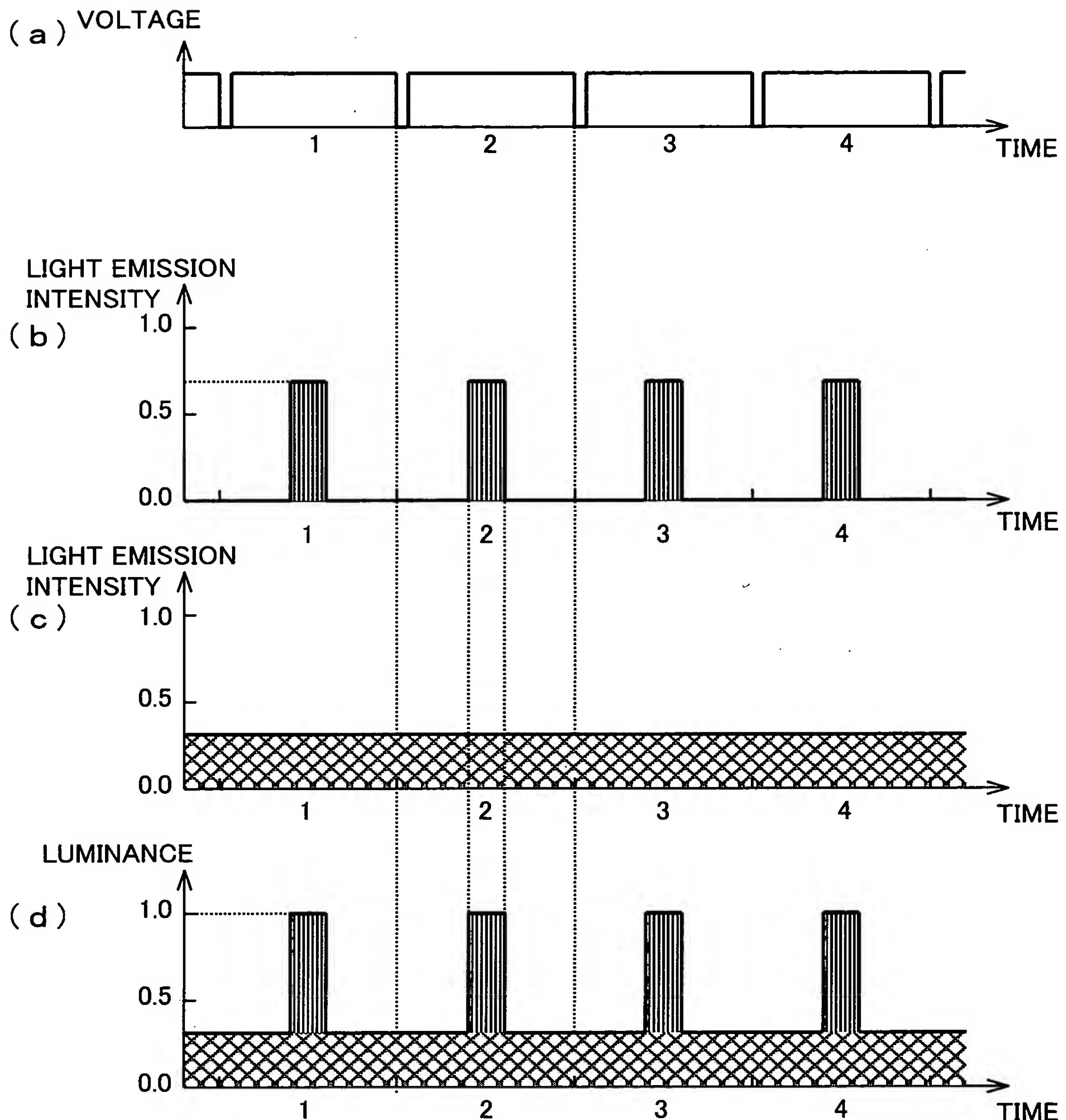


FIG. 42 (a)

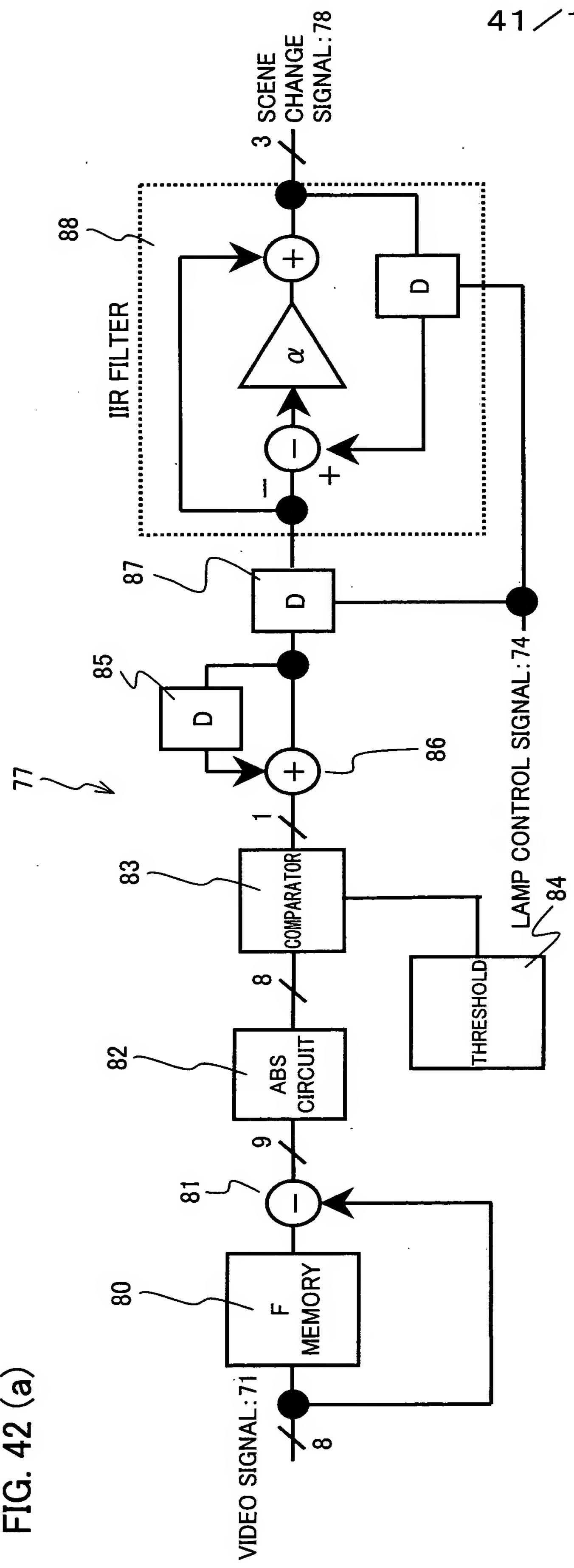


FIG. 42 (b)

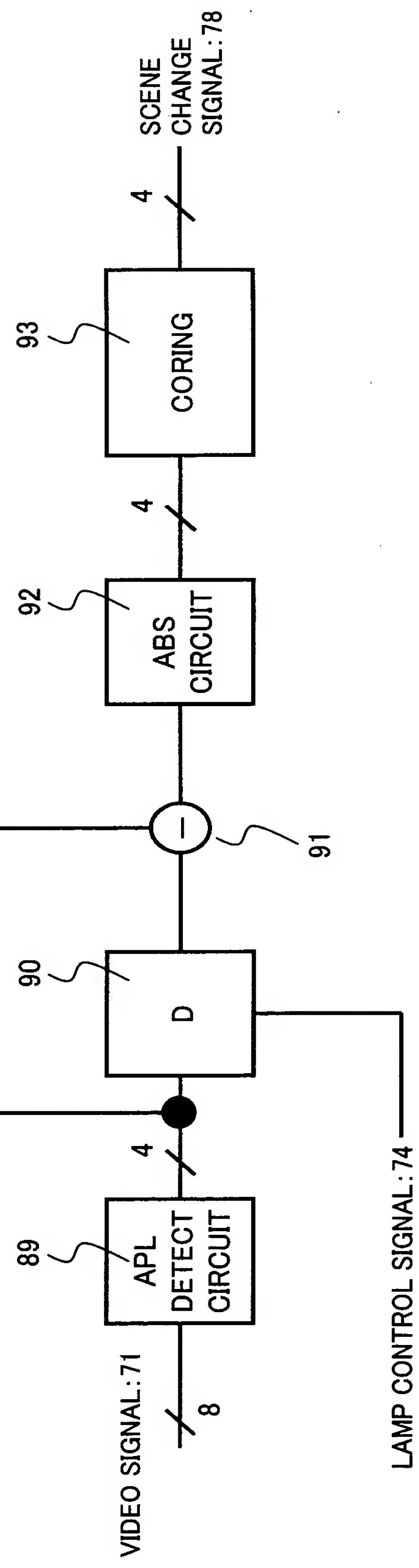


FIG. 43

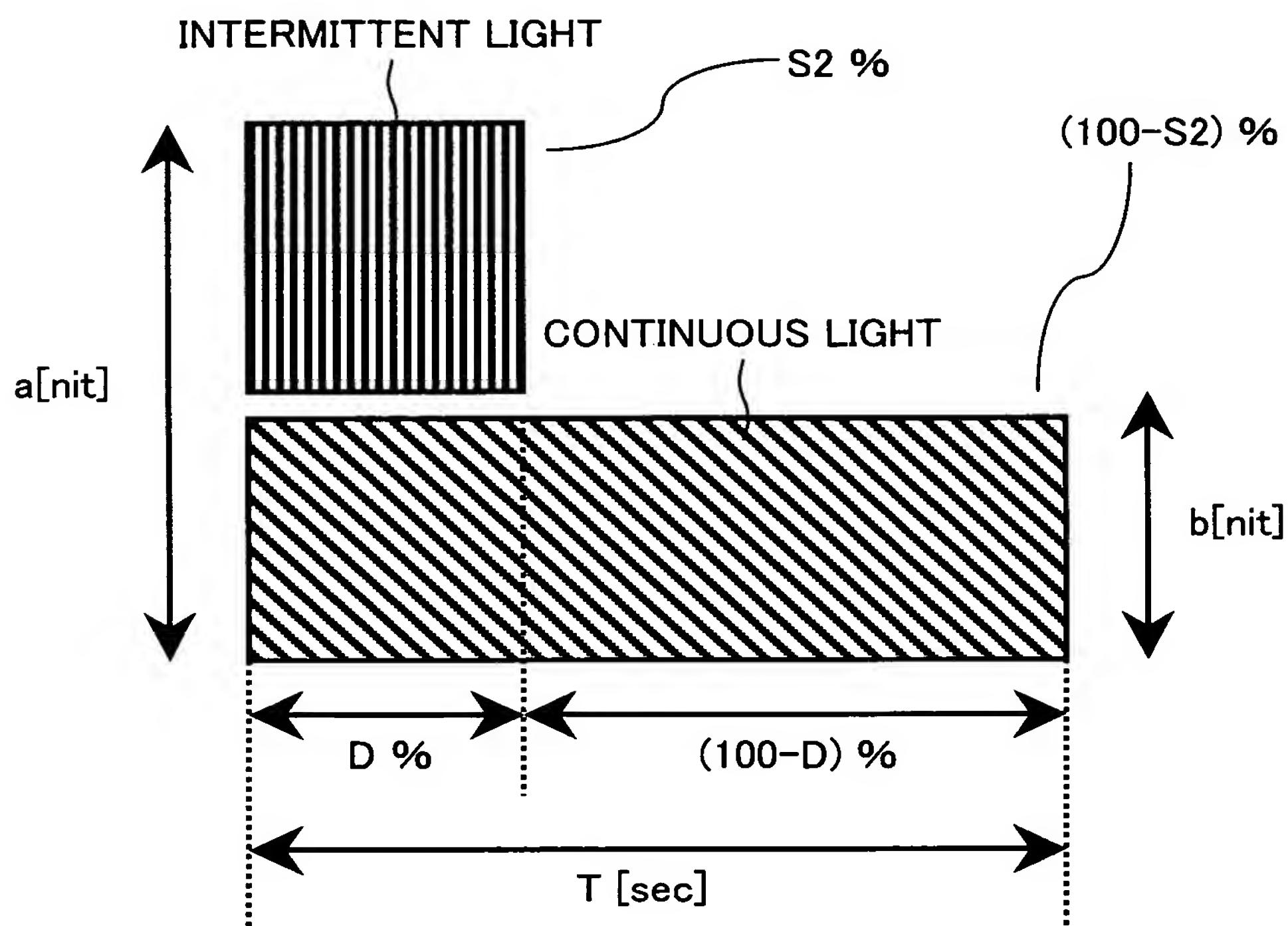


FIG. 44 (a)

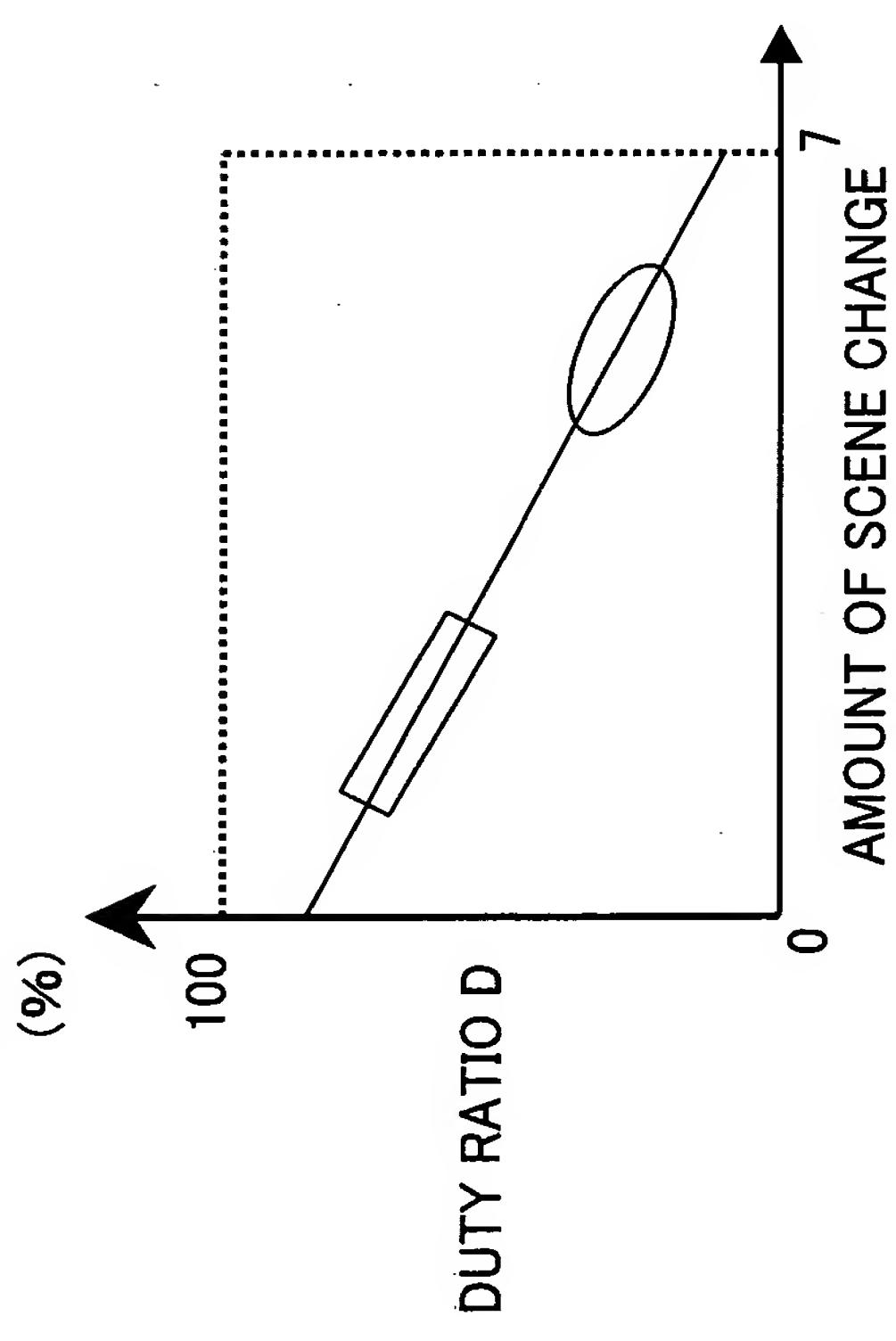


FIG. 44 (b)

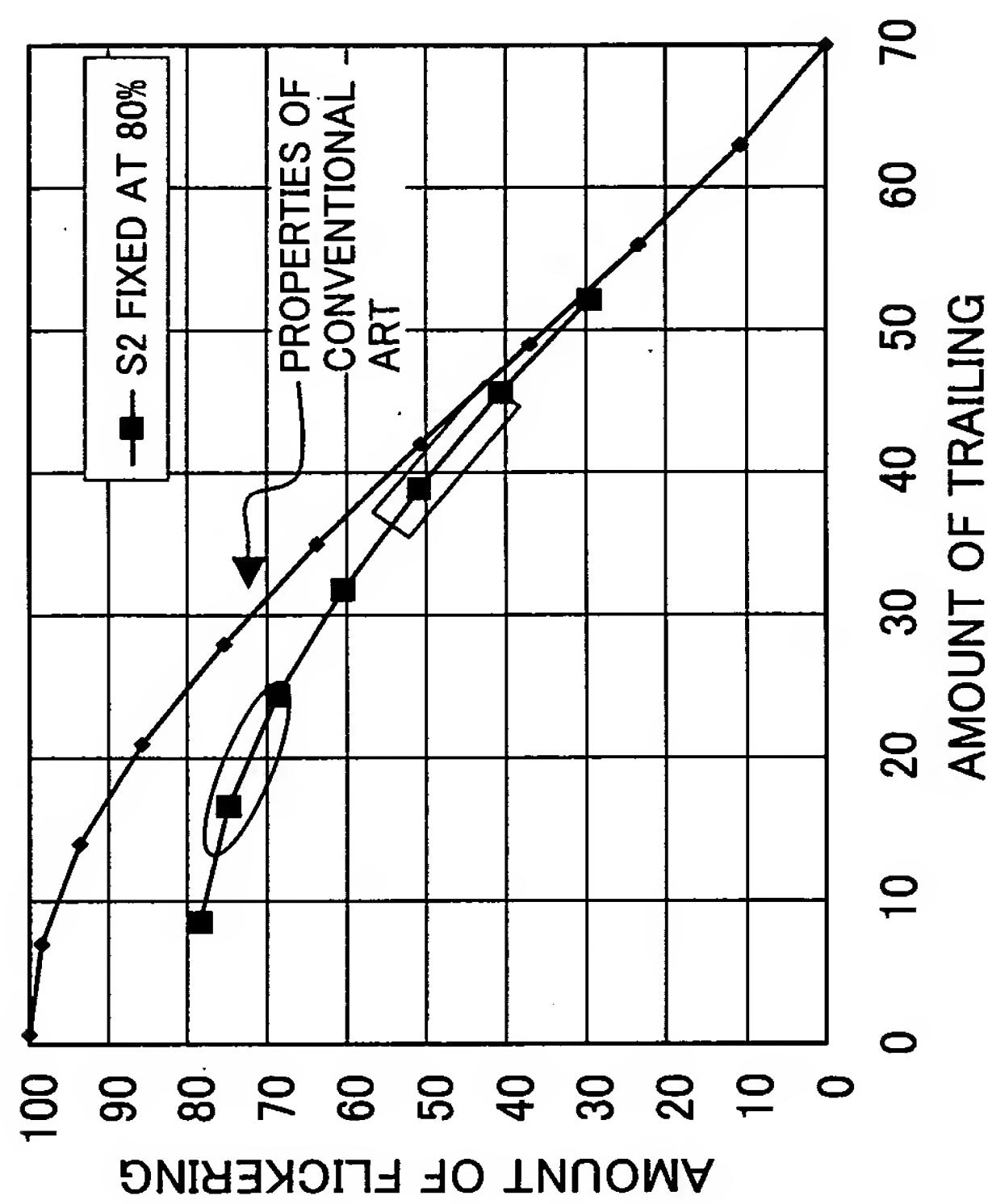


FIG. 44 (c)

DUTY RATIO D	AMOUNT OF FLICKERING	AMOUNT OF TRAILING
10	78.38	8.5
20	74.82	16.7
30	68.65	24.4
40	60.41	31.8
50	50.93	38.9
60	40.59	45.7
70	29.51	52.1

S2 FIXED AT 80%

FIG. 45 (a)

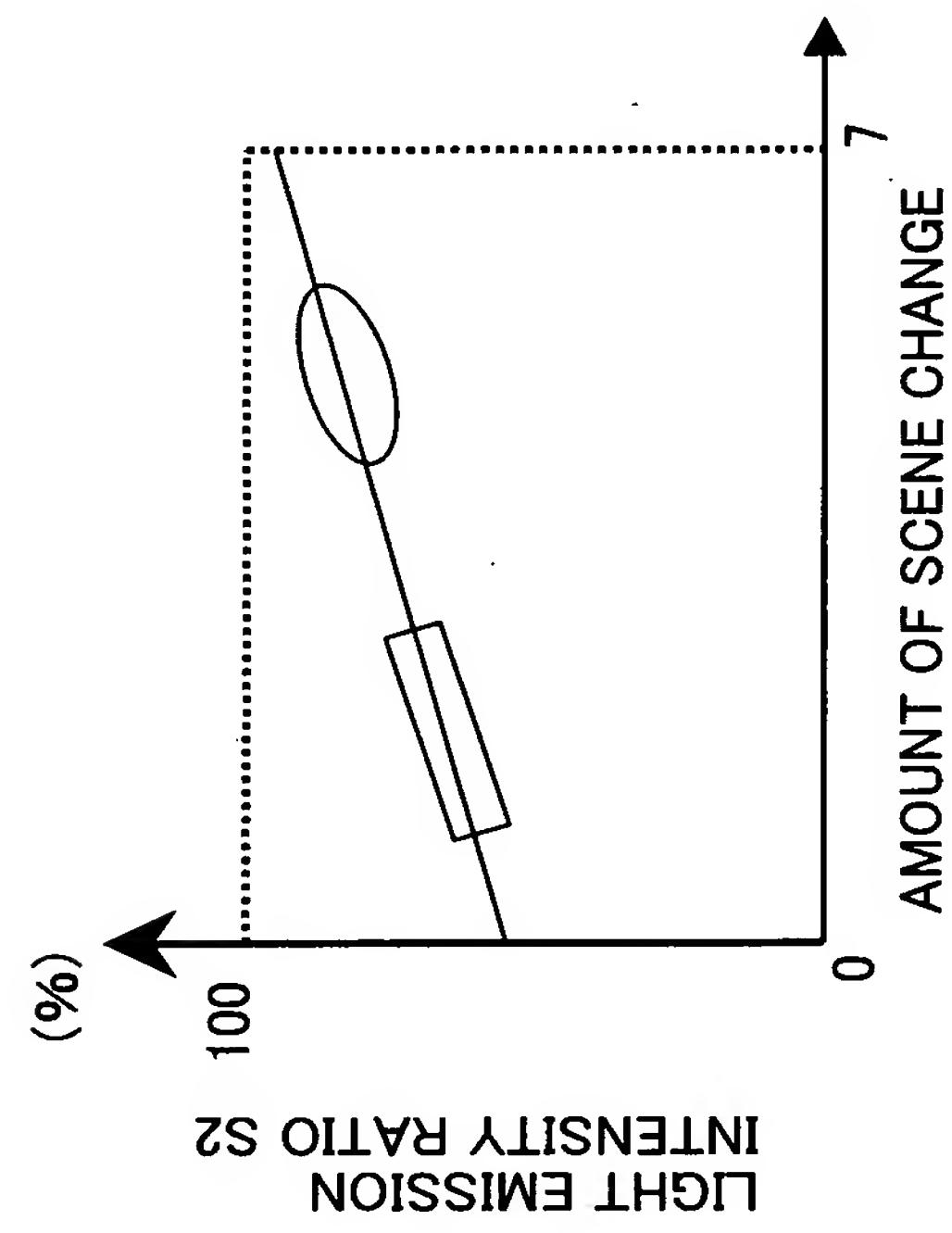


FIG. 45 (b)

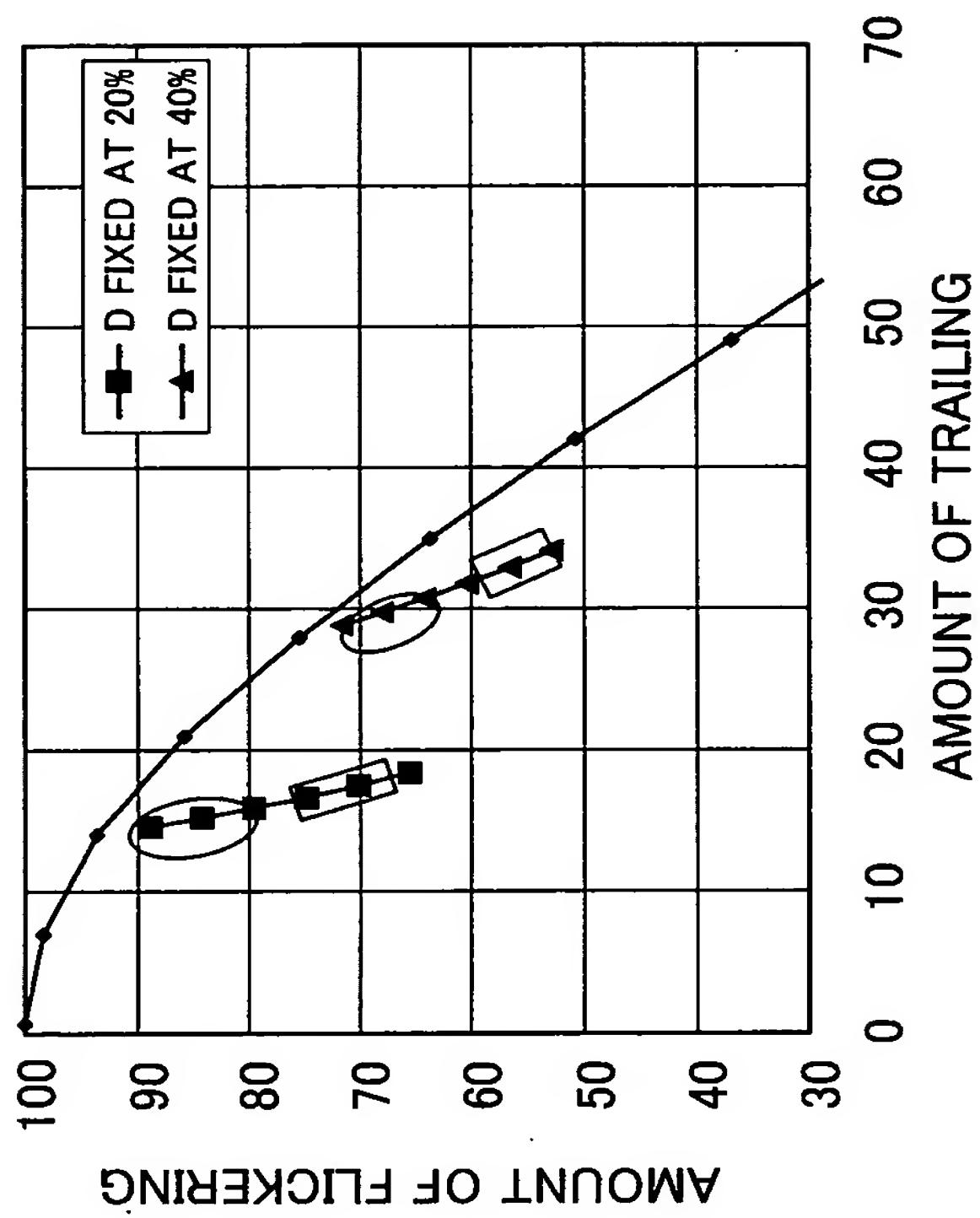


FIG. 45 (c)

LIGHT EMISSION INTENSITY RATIO S_2	AMOUNT OF FLICKERING	AMOUNT OF TRAILING
95	88.9	14.6
90	84.2	15.2
85	79.5	15.9
80	74.8	16.7
75	70.1	17.5
70	65.4	18.4

D FIXED AT 20%

FIG. 45 (d)

LIGHT EMISSION INTENSITY RATIO S_2	AMOUNT OF FLICKERING	AMOUNT OF TRAILING
95	71.7	28.9
90	67.9	29.8
85	64.2	30.8
80	60.4	31.8
75	56.7	32.9
70	52.9	34.1

D FIXED AT 40%

FIG. 46 (a)

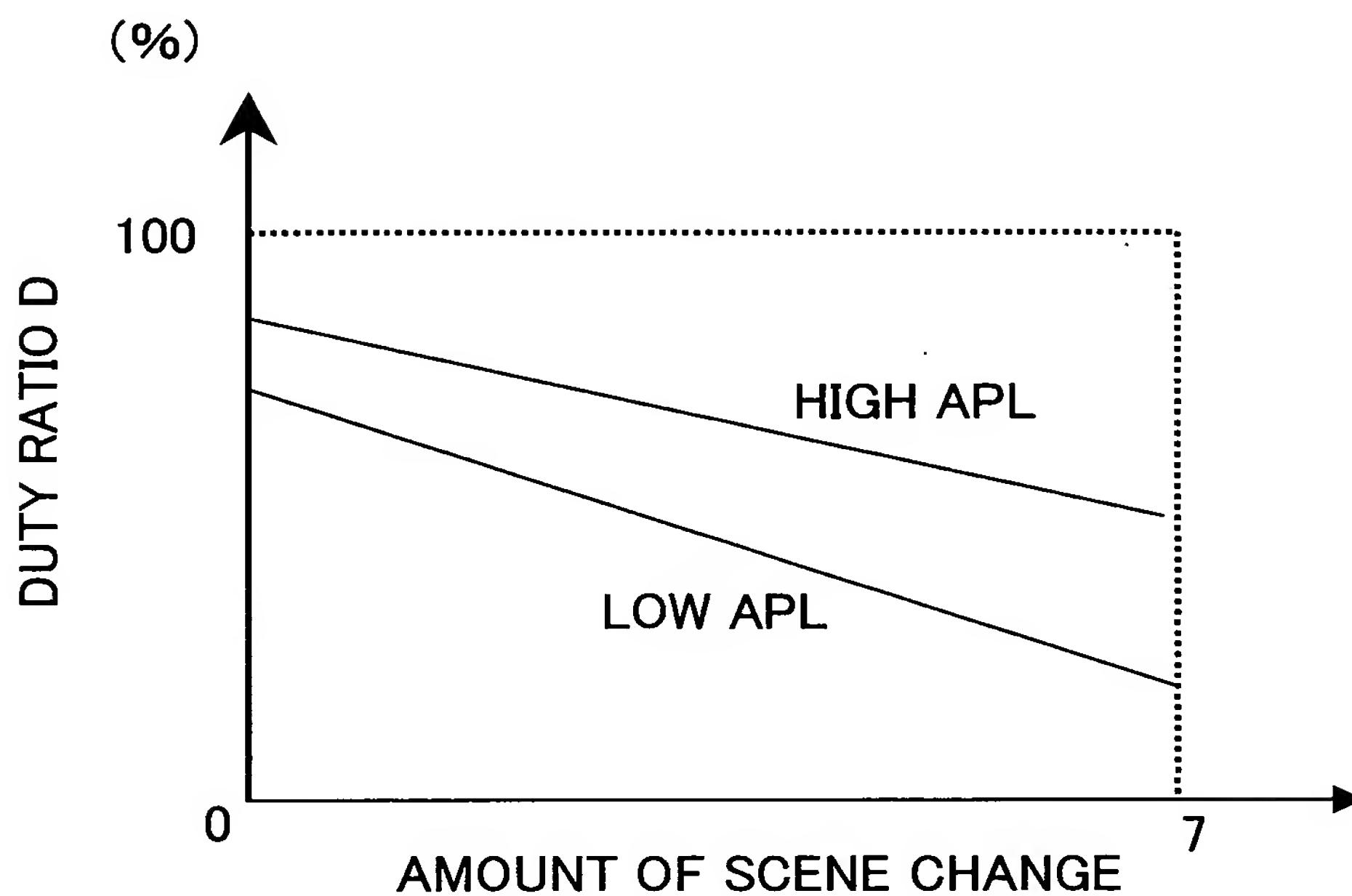


FIG. 46 (b)

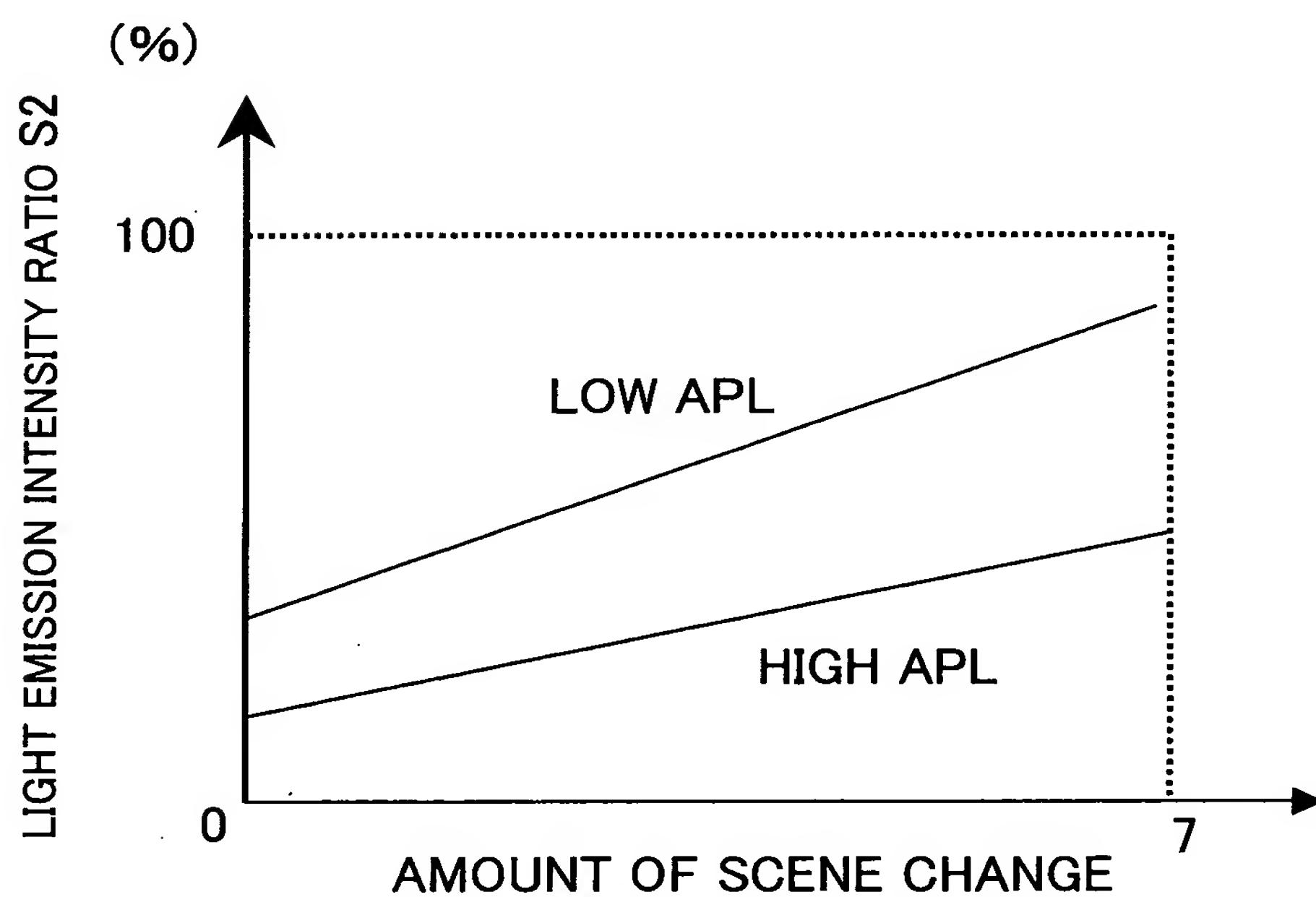


FIG. 47

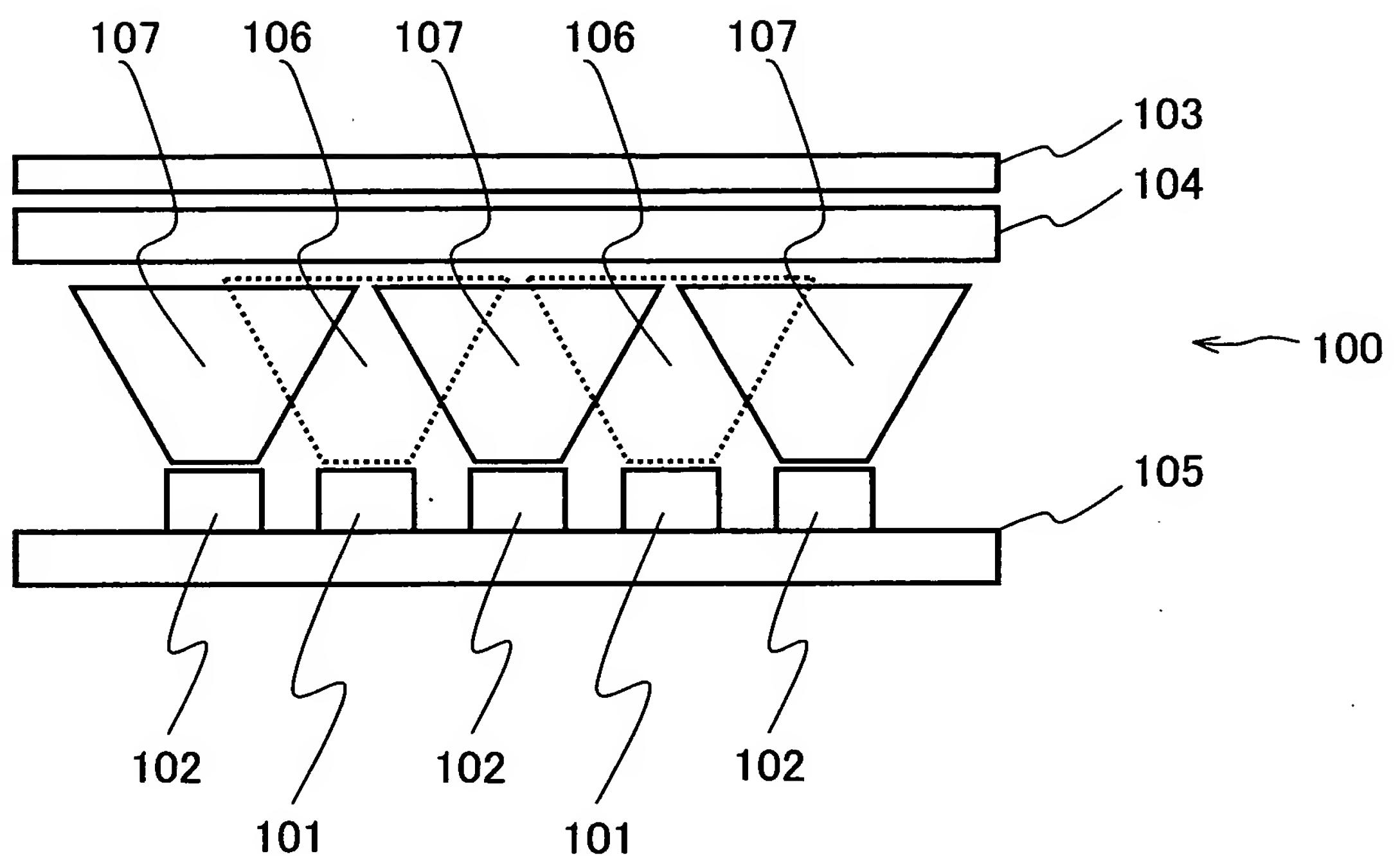


FIG. 48

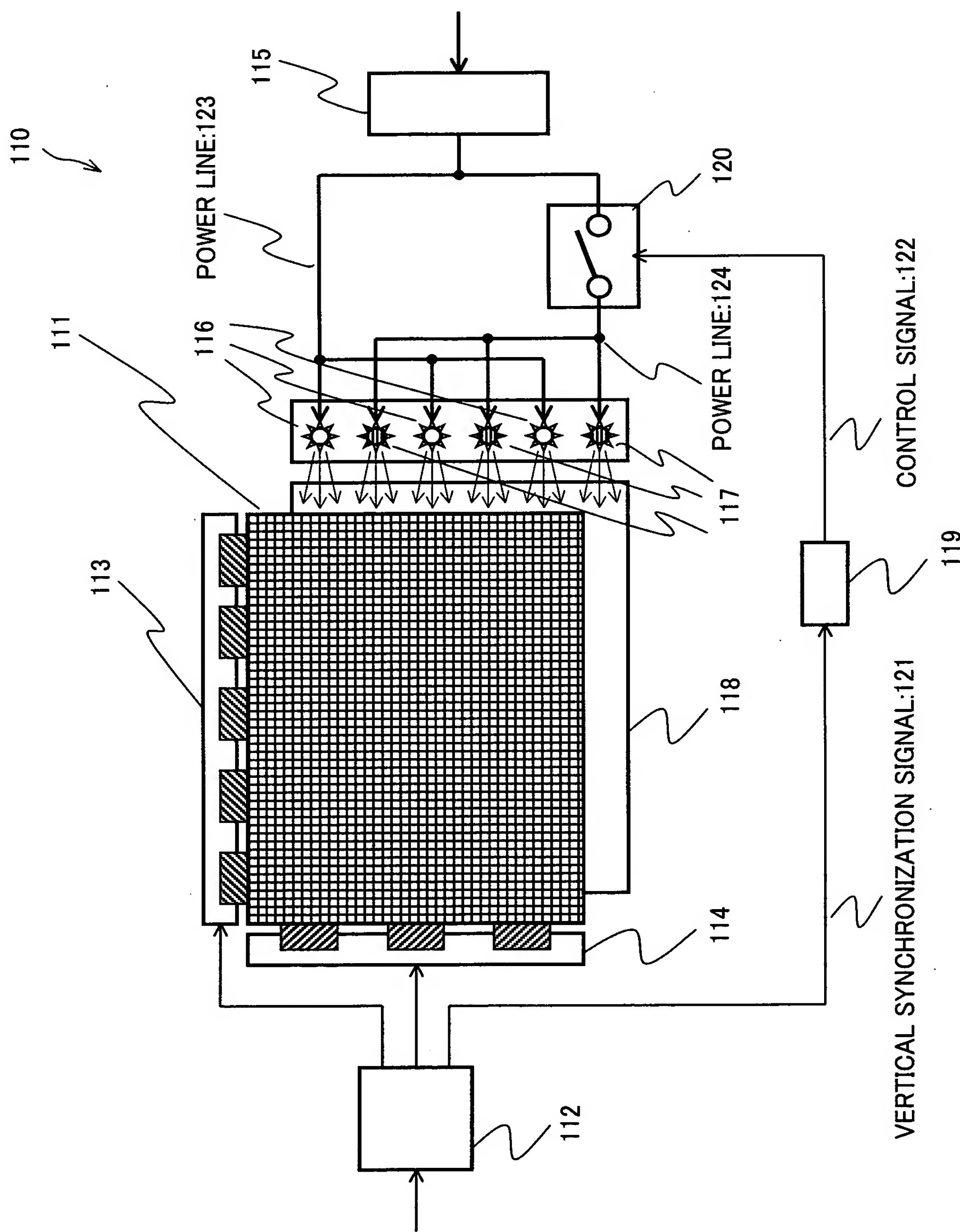
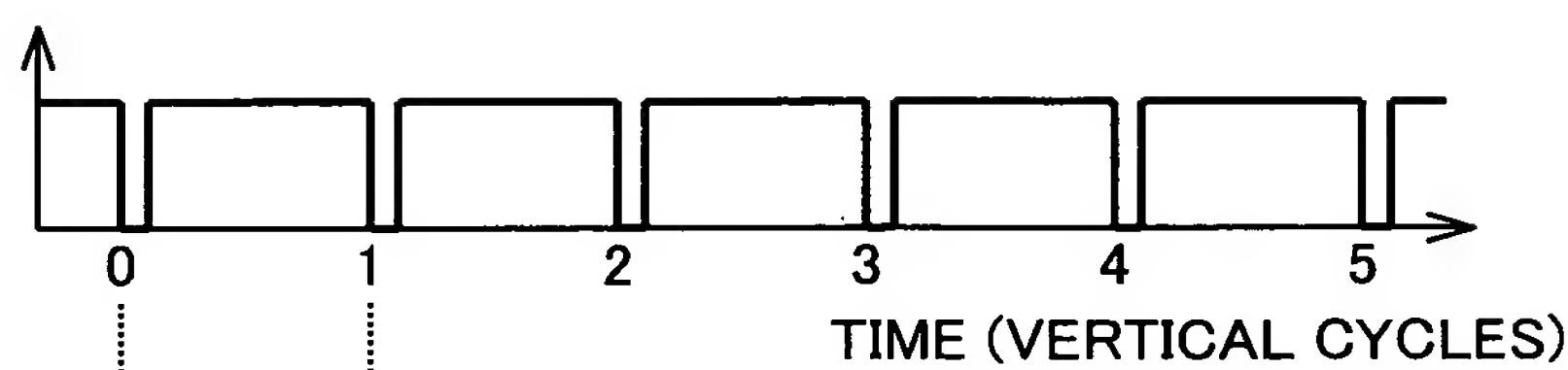
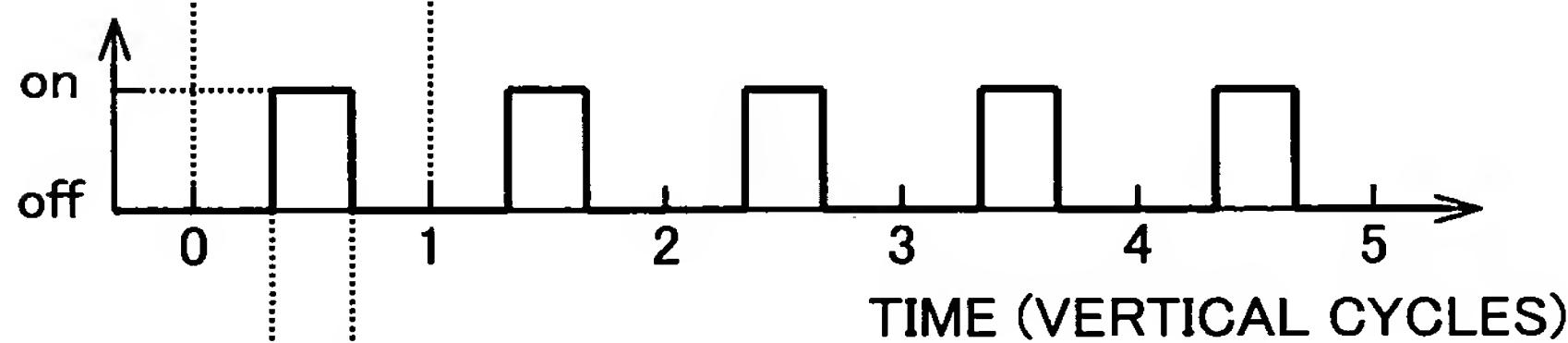


FIG. 49

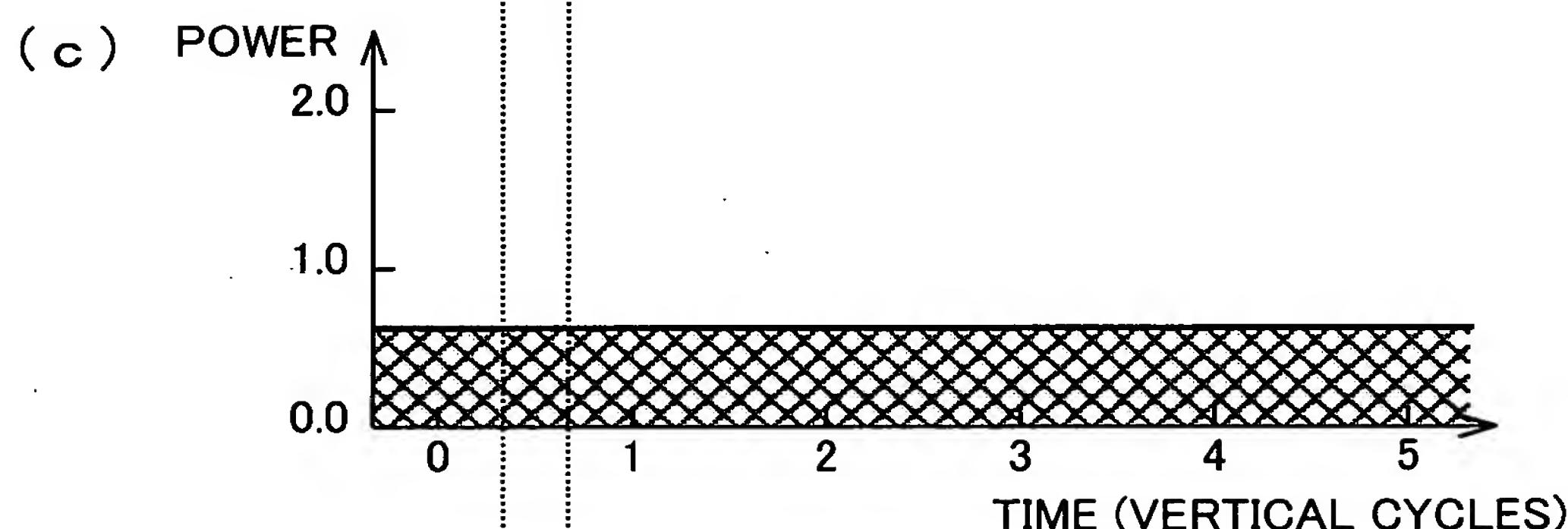
(a)



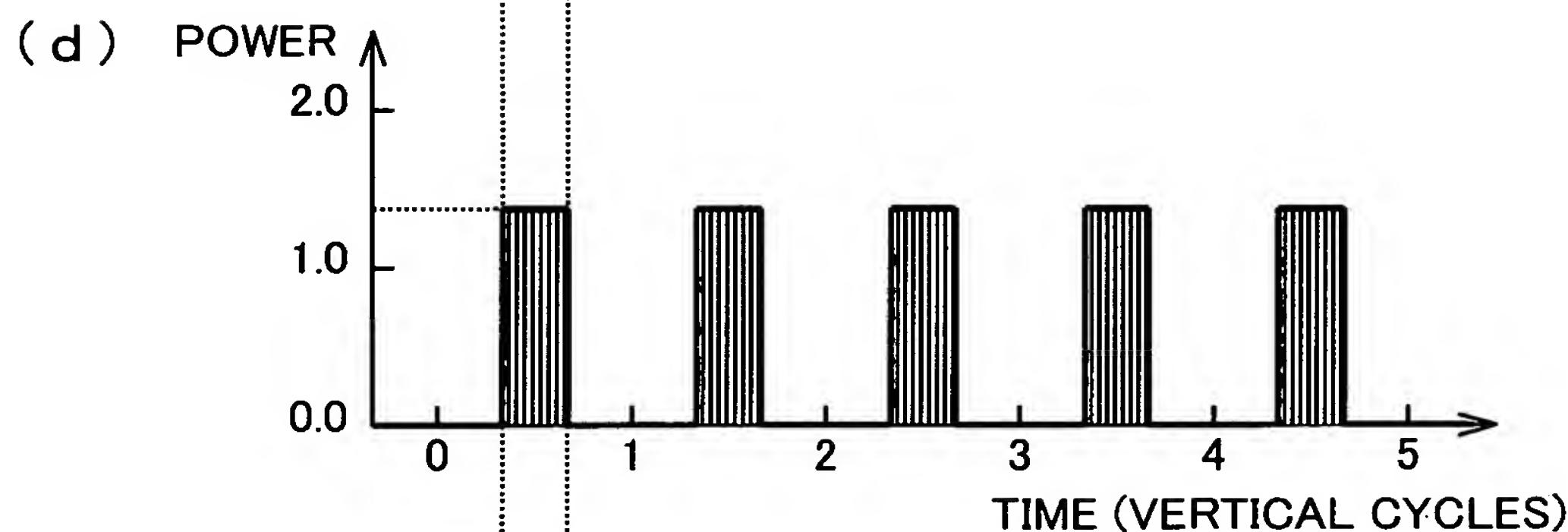
(b)



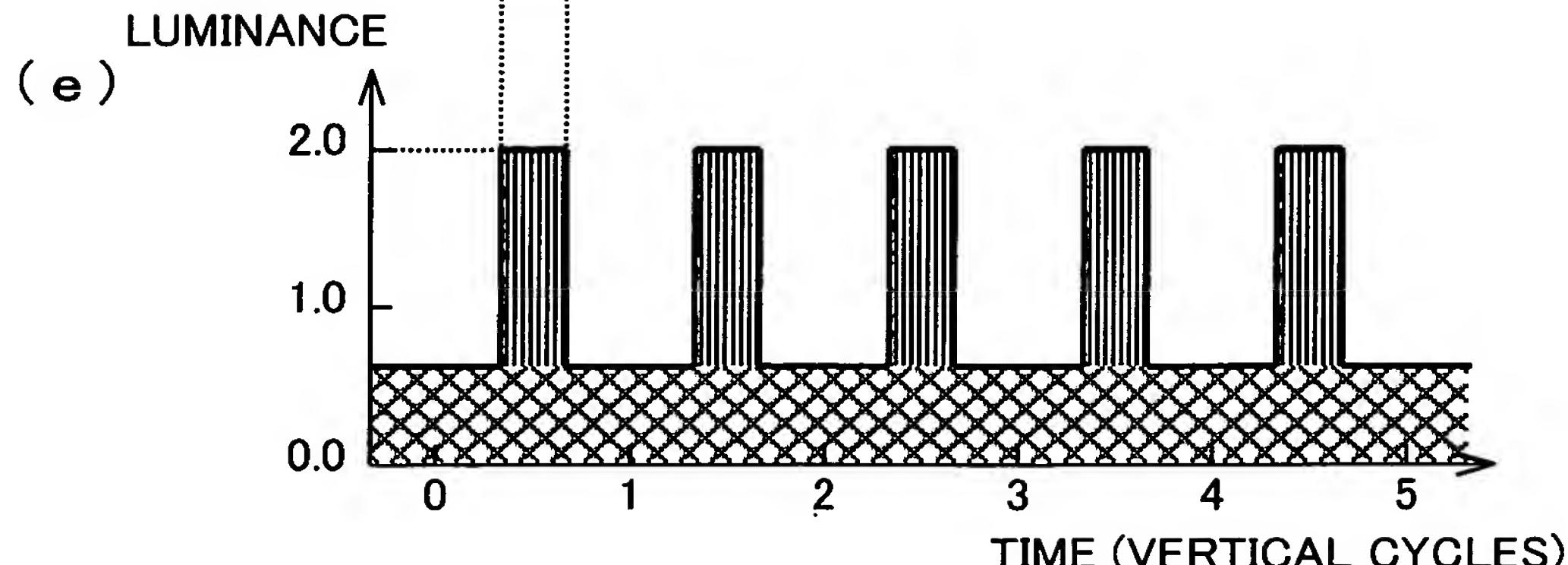
(c)



(d)



(e)



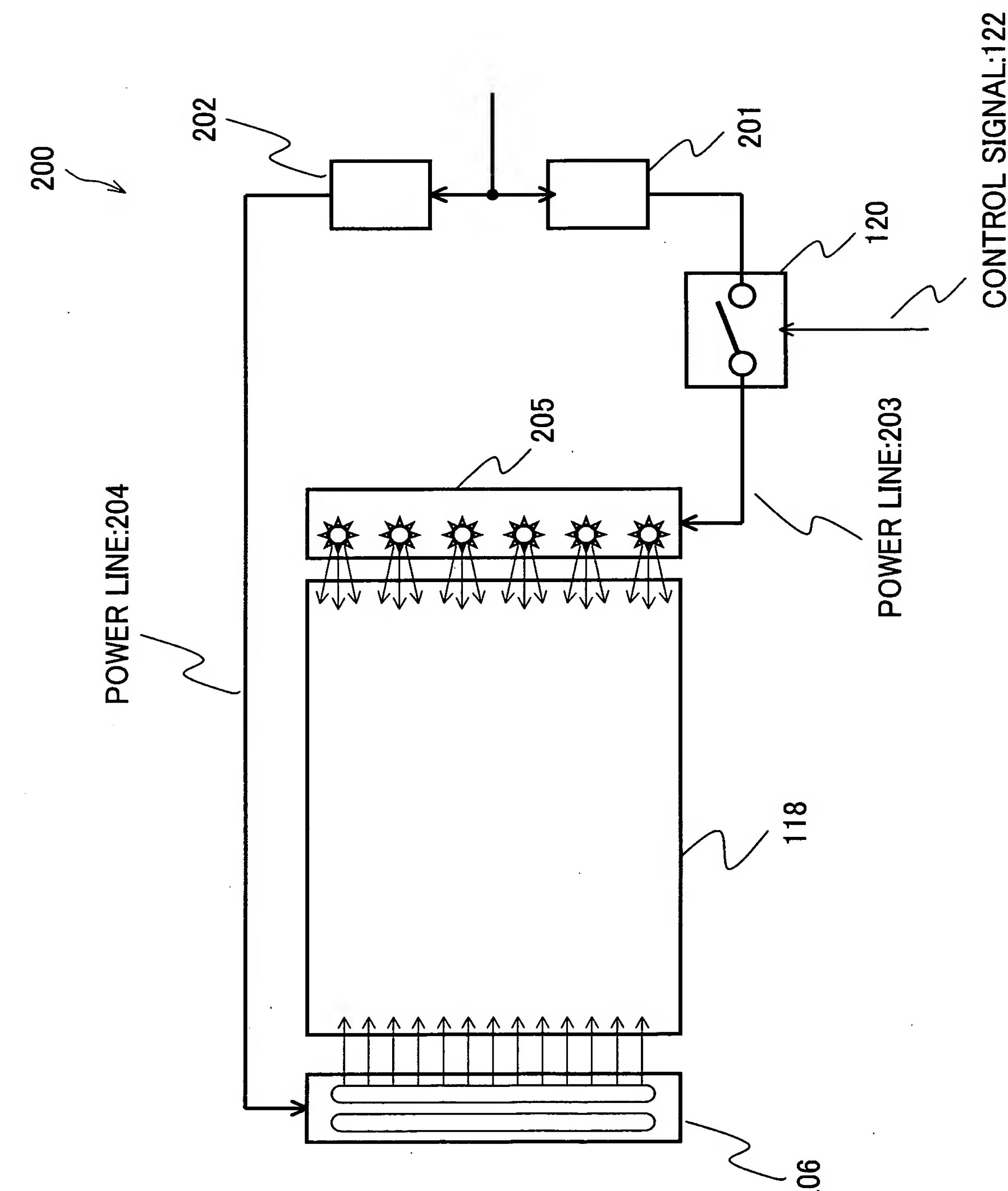


FIG. 50

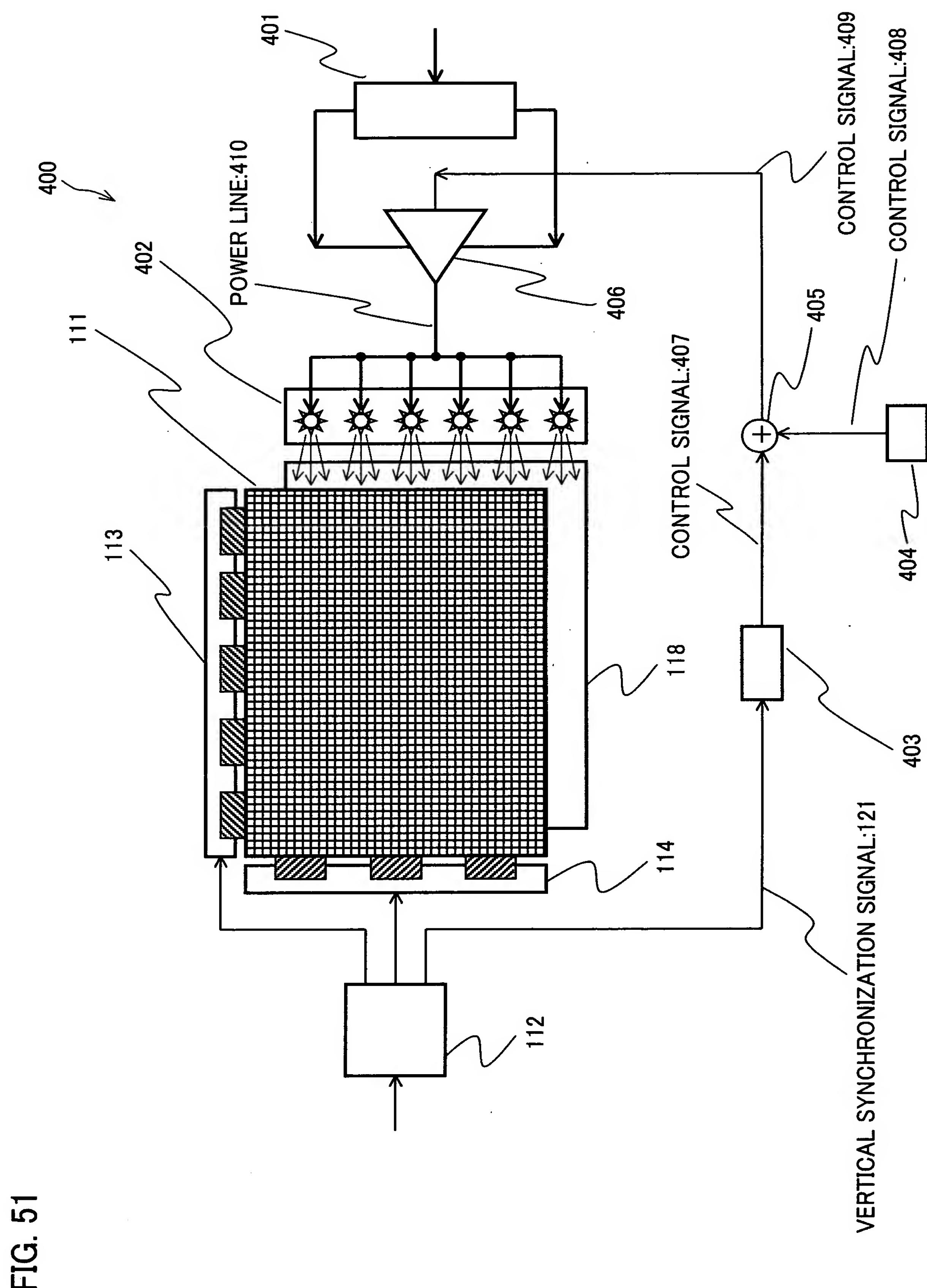


FIG. 51

FIG. 52

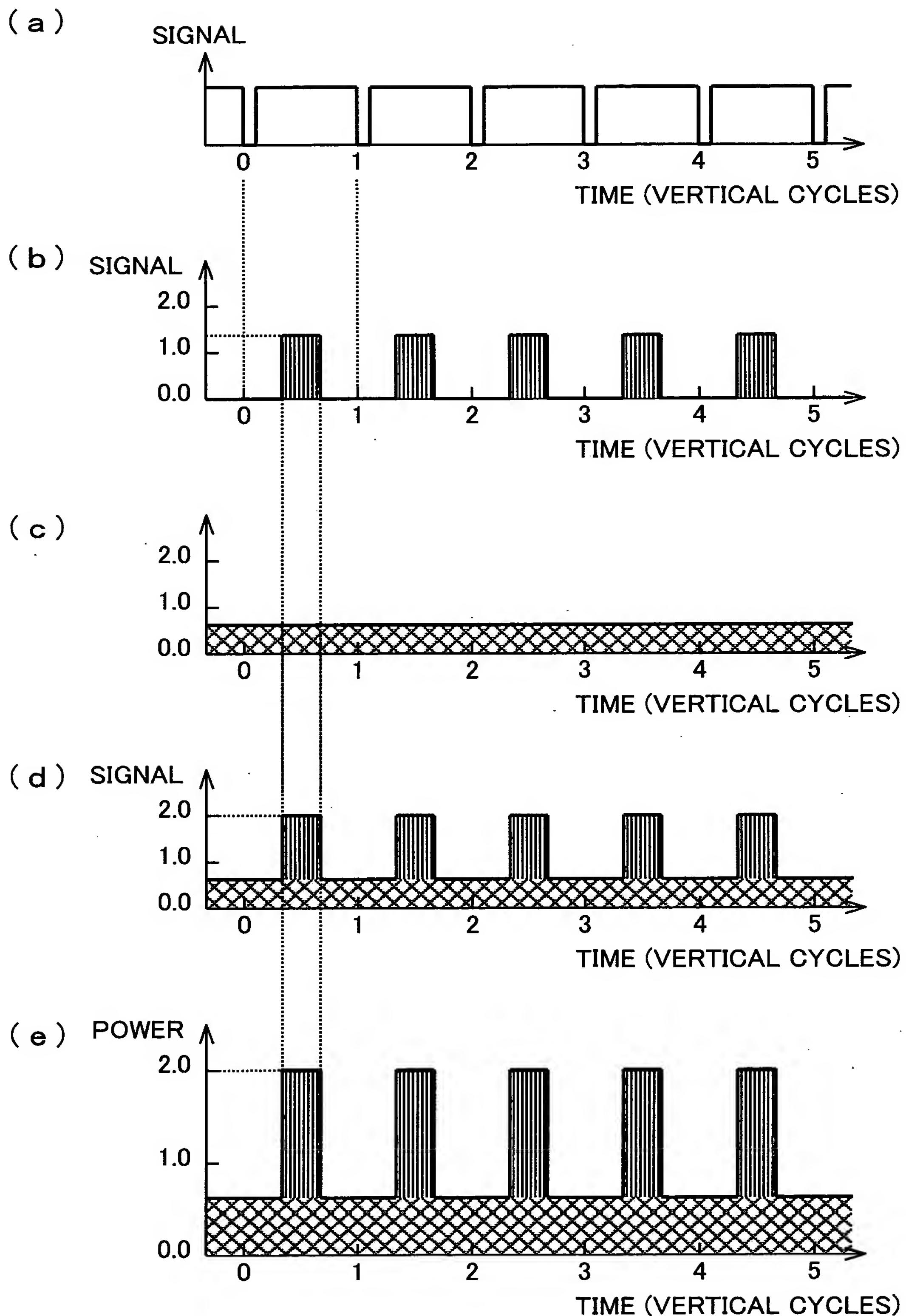


FIG. 53

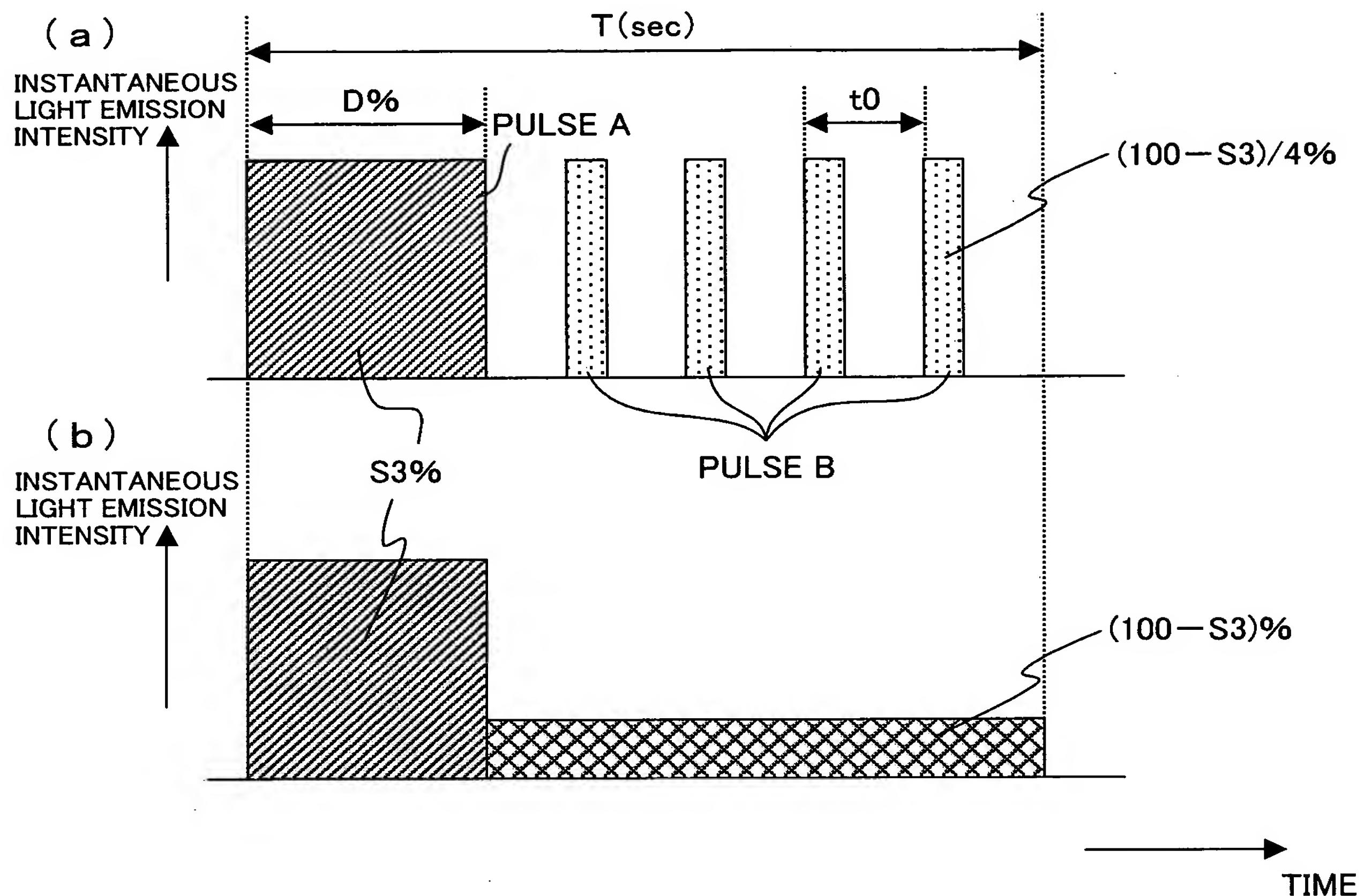


FIG. 54

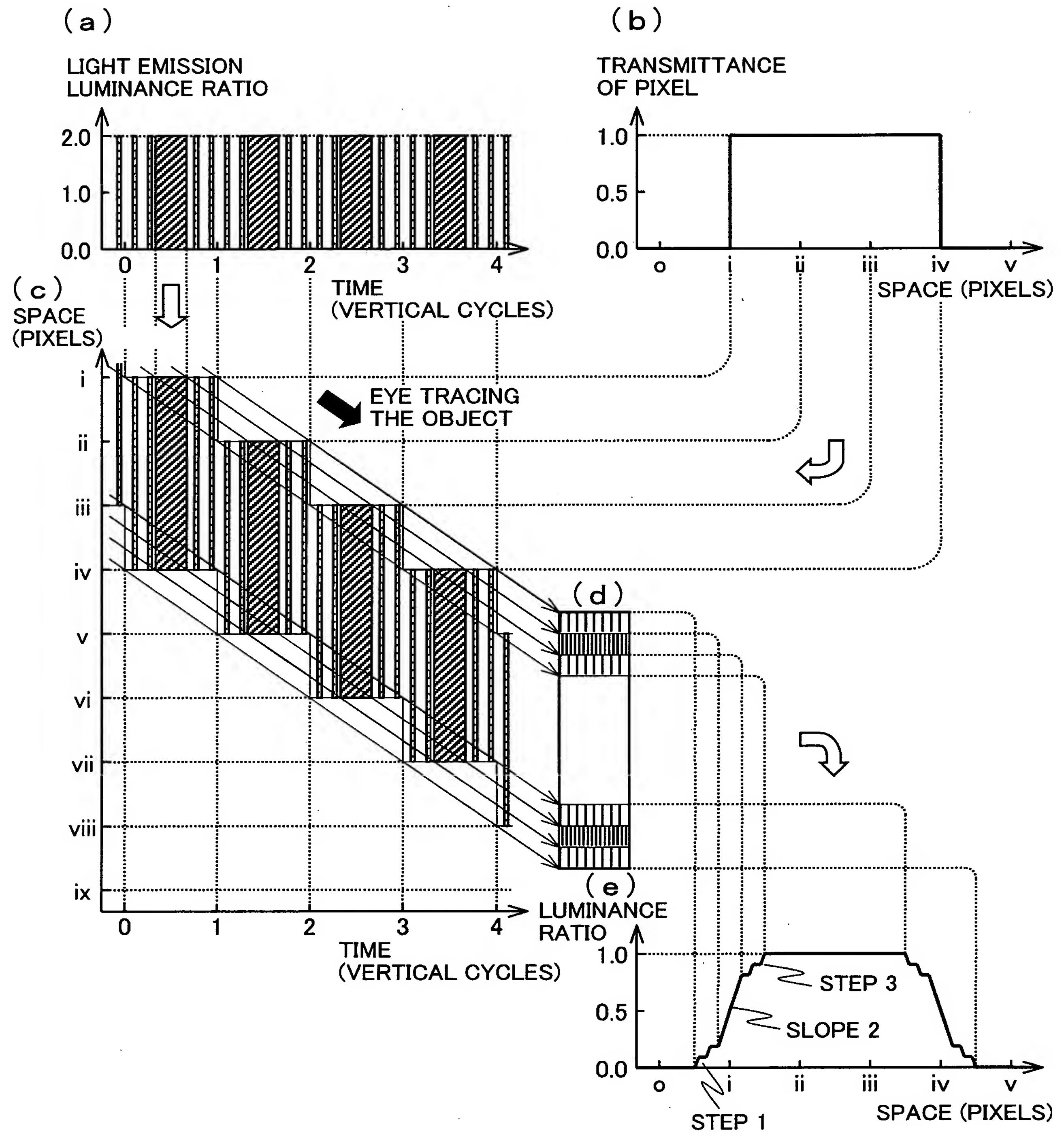
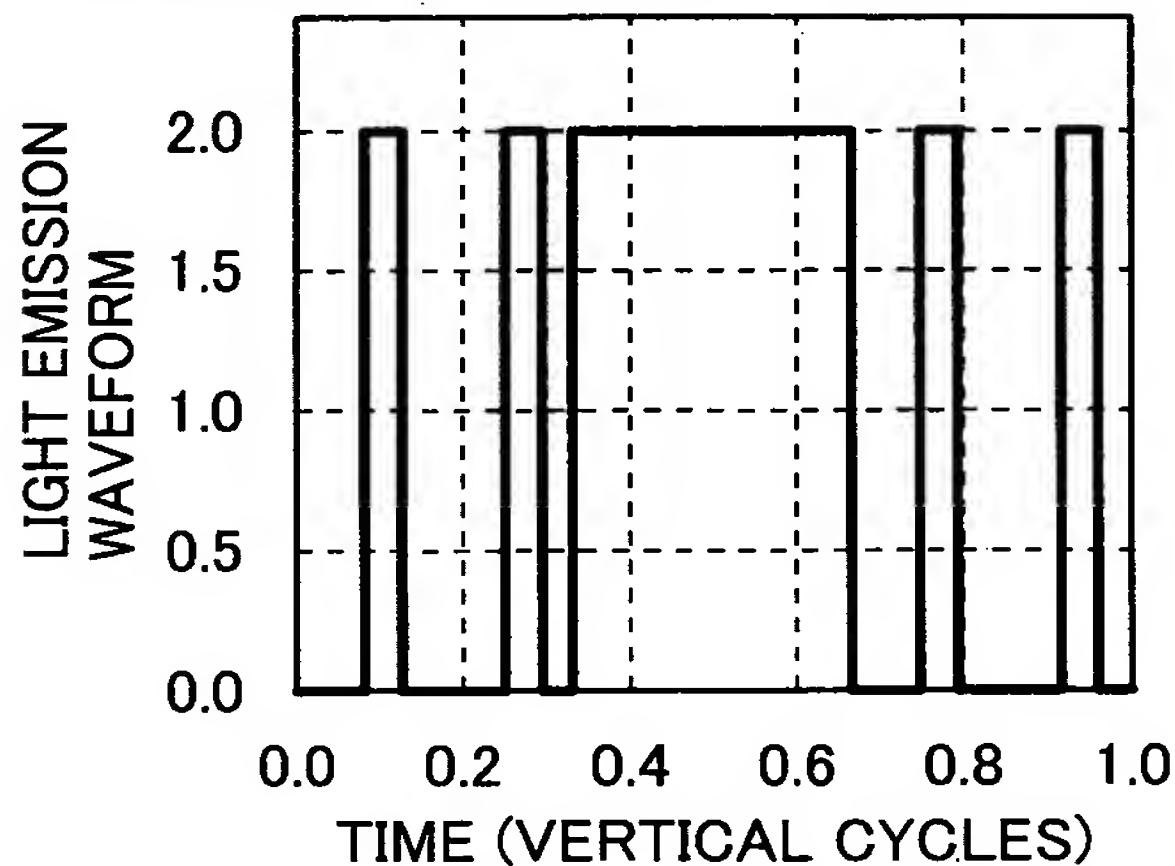
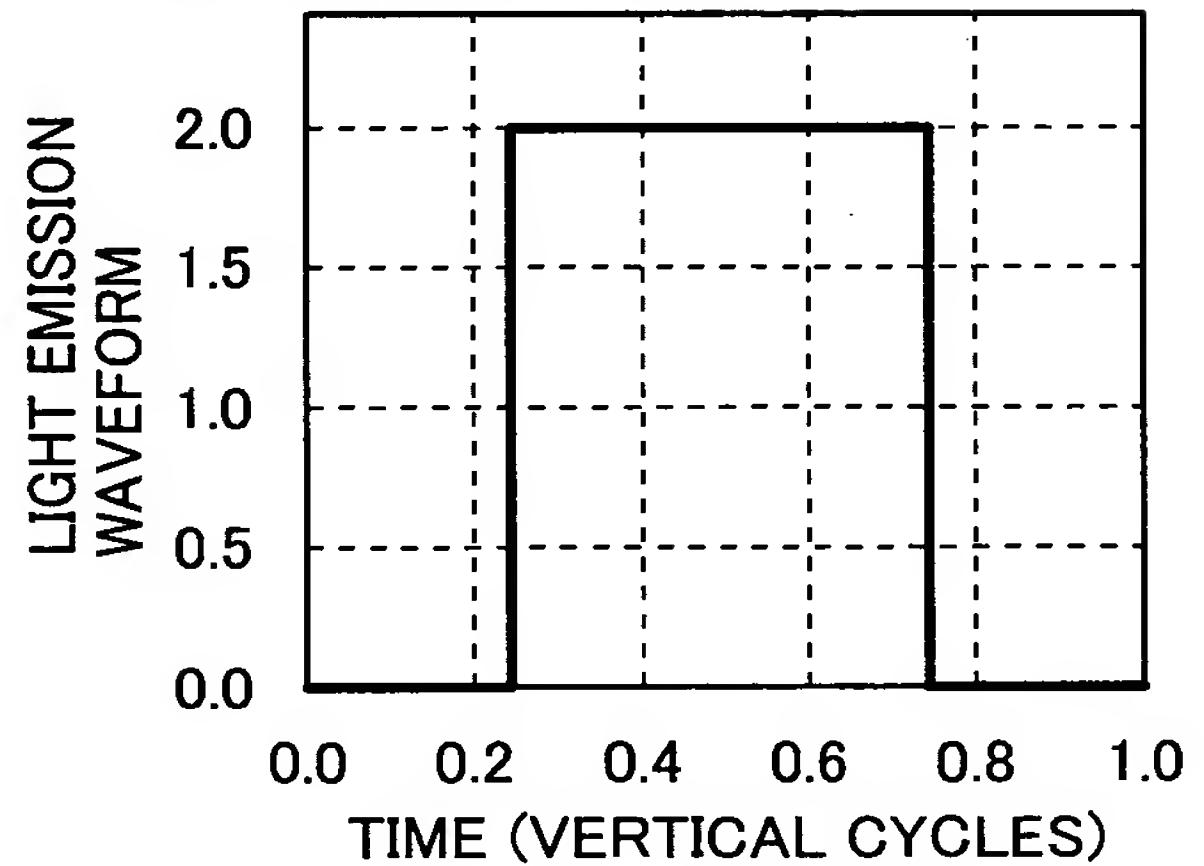


FIG. 55 (a)

LIGHT EMISSION WAVEFORM OF
PRESENT EMBODIMENT

**FIG. 55 (b)**

CONVENTIONAL LIGHT
EMISSION WAVEFORM

**FIG. 55 (c)**

COMPARISON OF HARMONICS

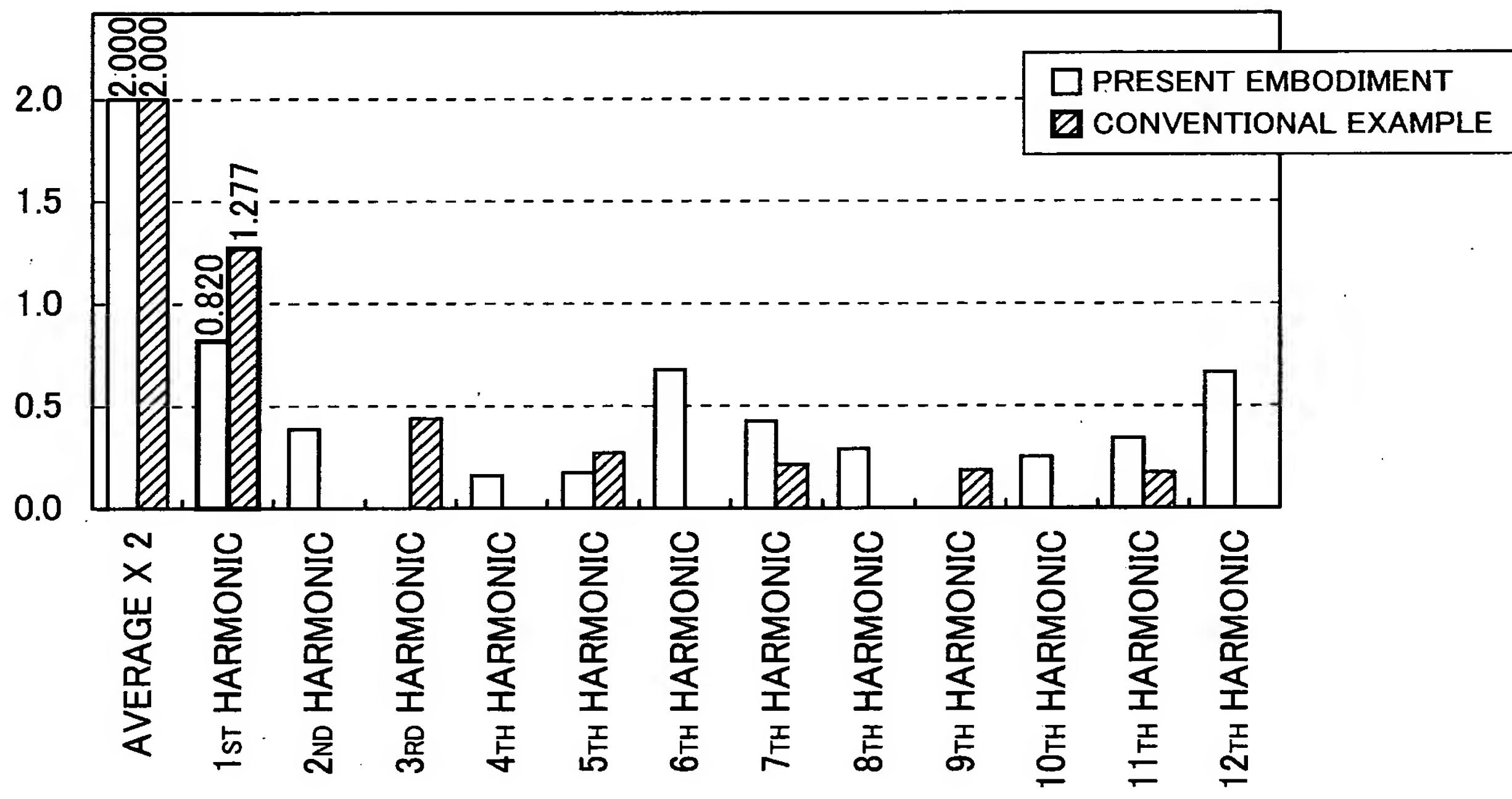


FIG. 56

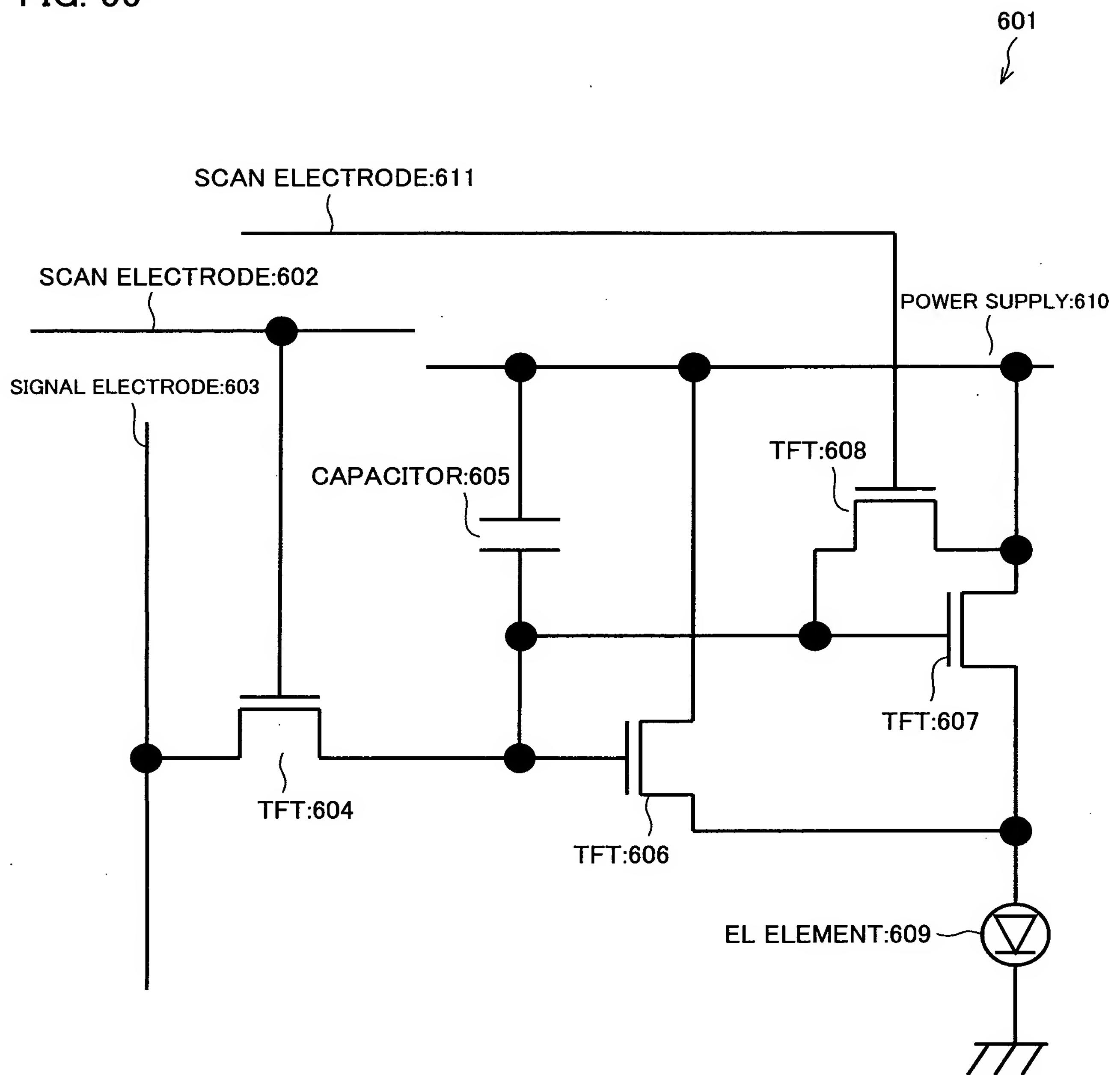


FIG. 57

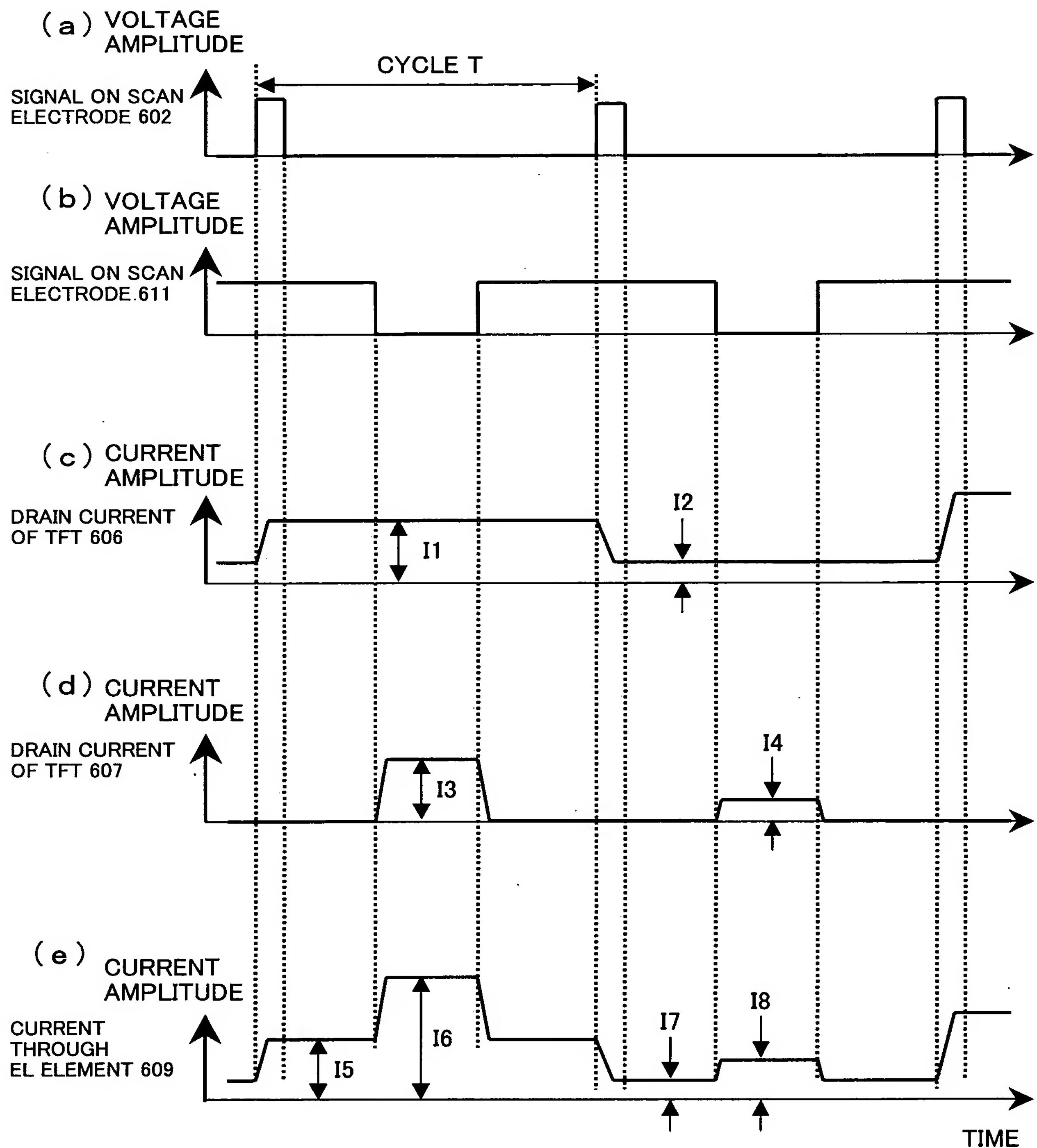


FIG. 58

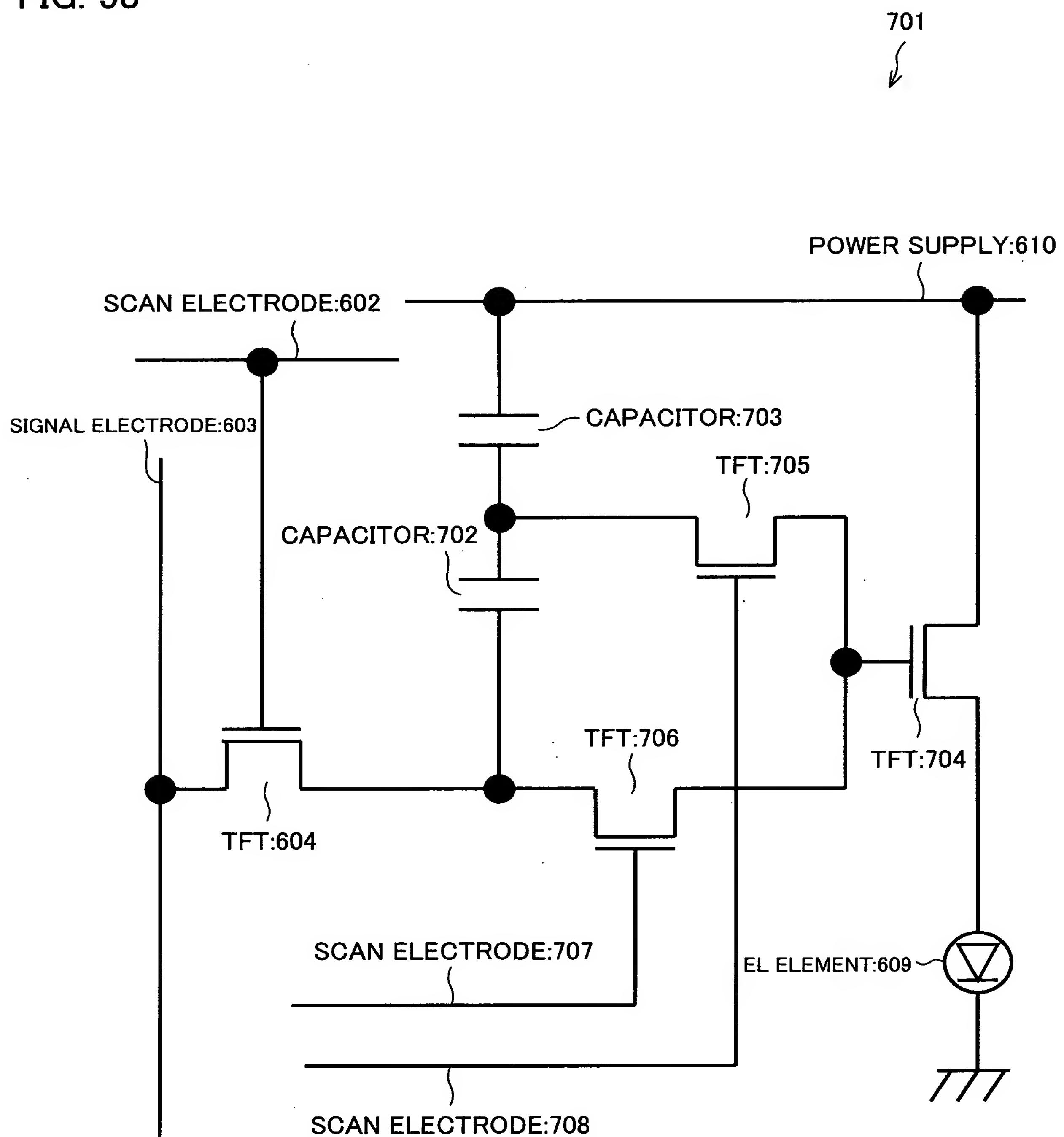


FIG. 59

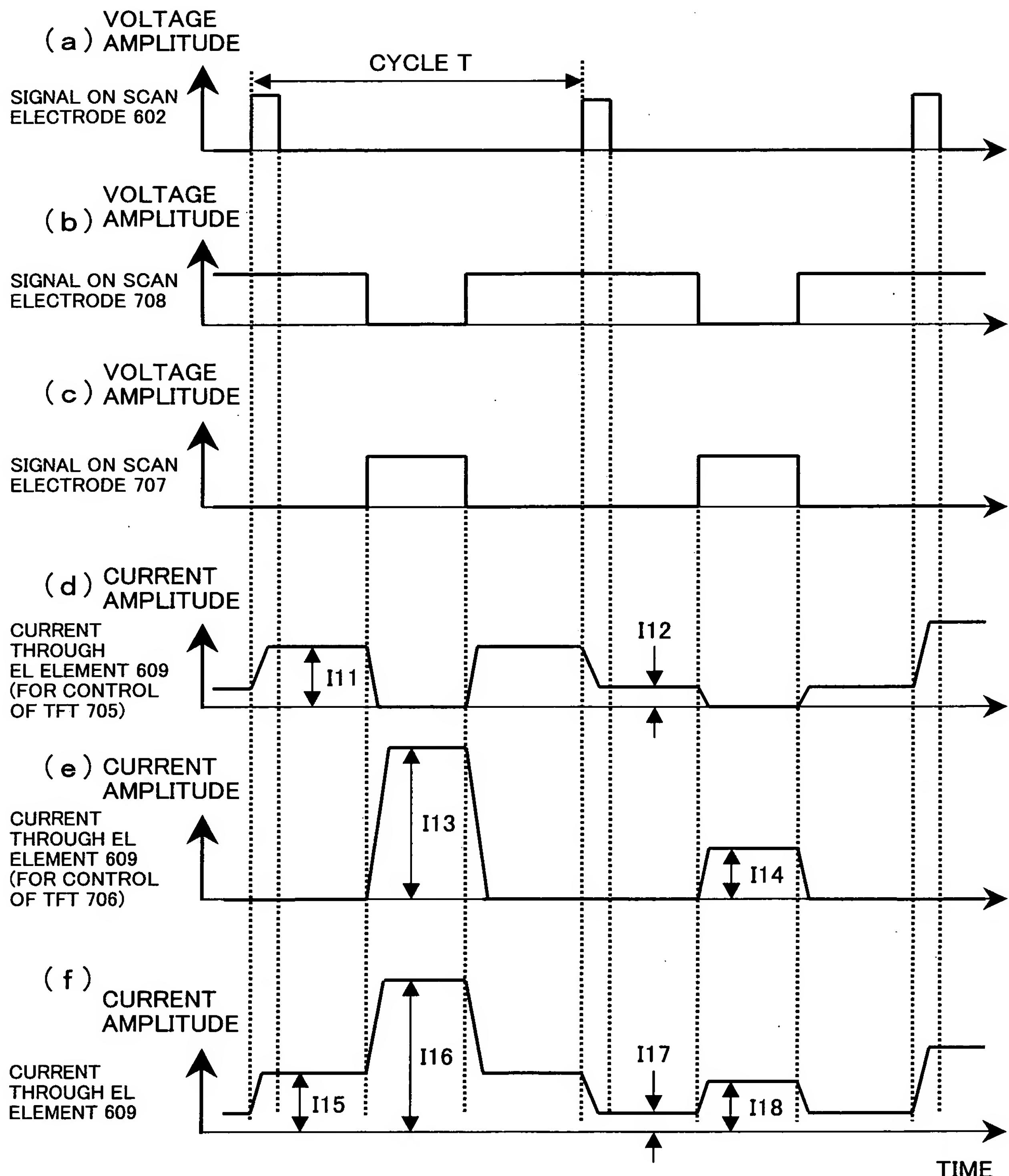
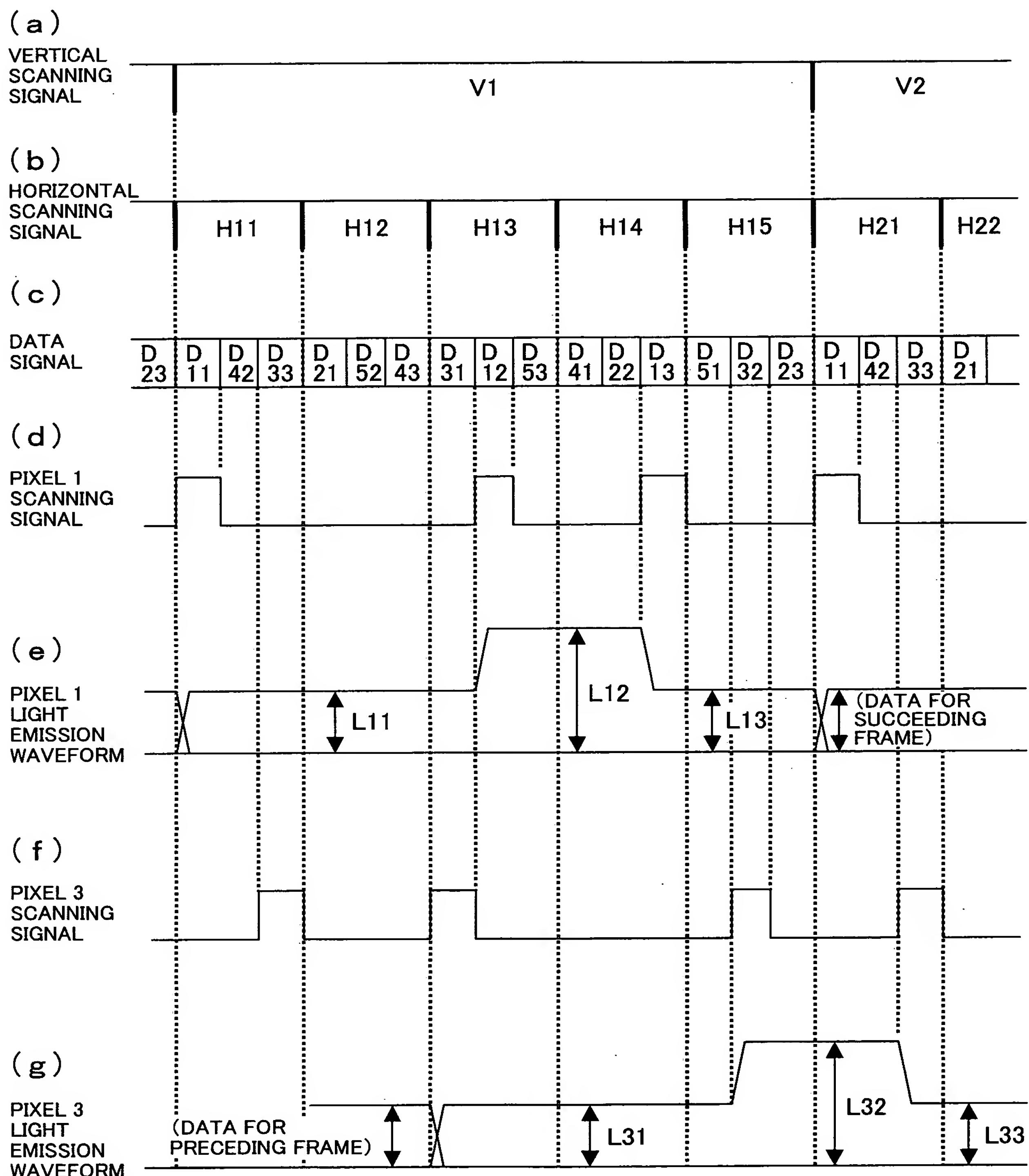


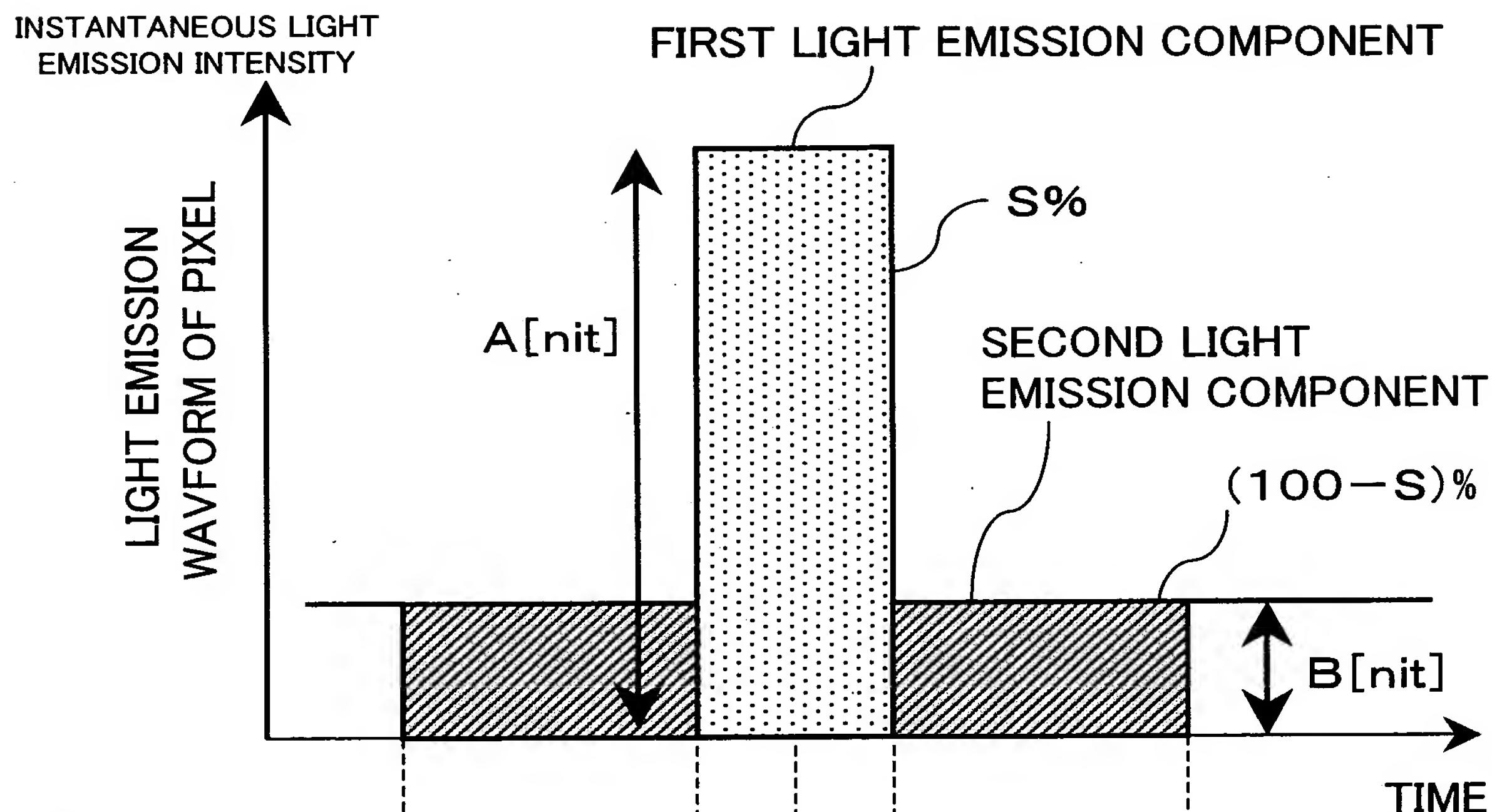
FIG. 60



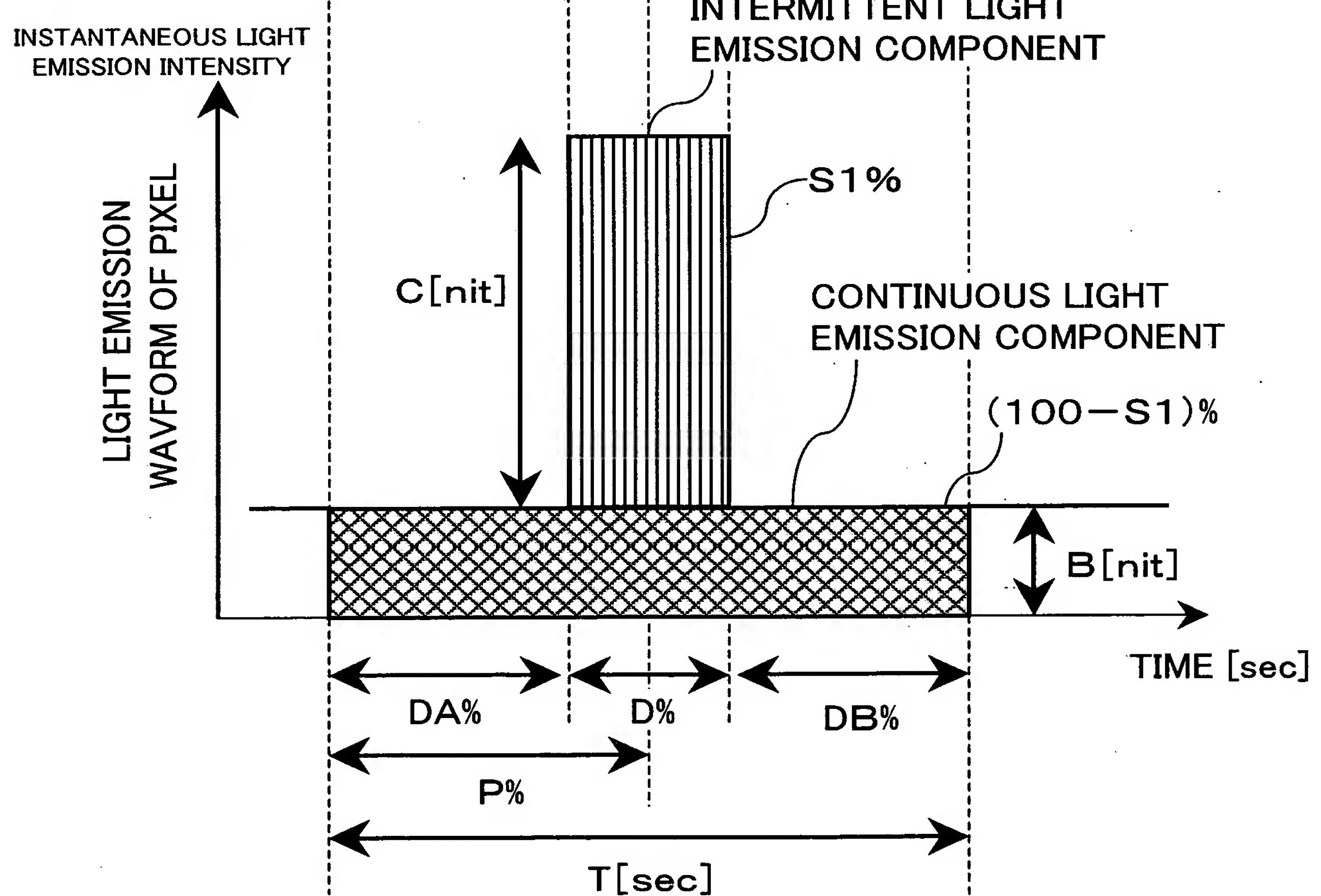
60/114

FIG.61

(a)



(b)



6 1 / 1 1 4

FIG.62

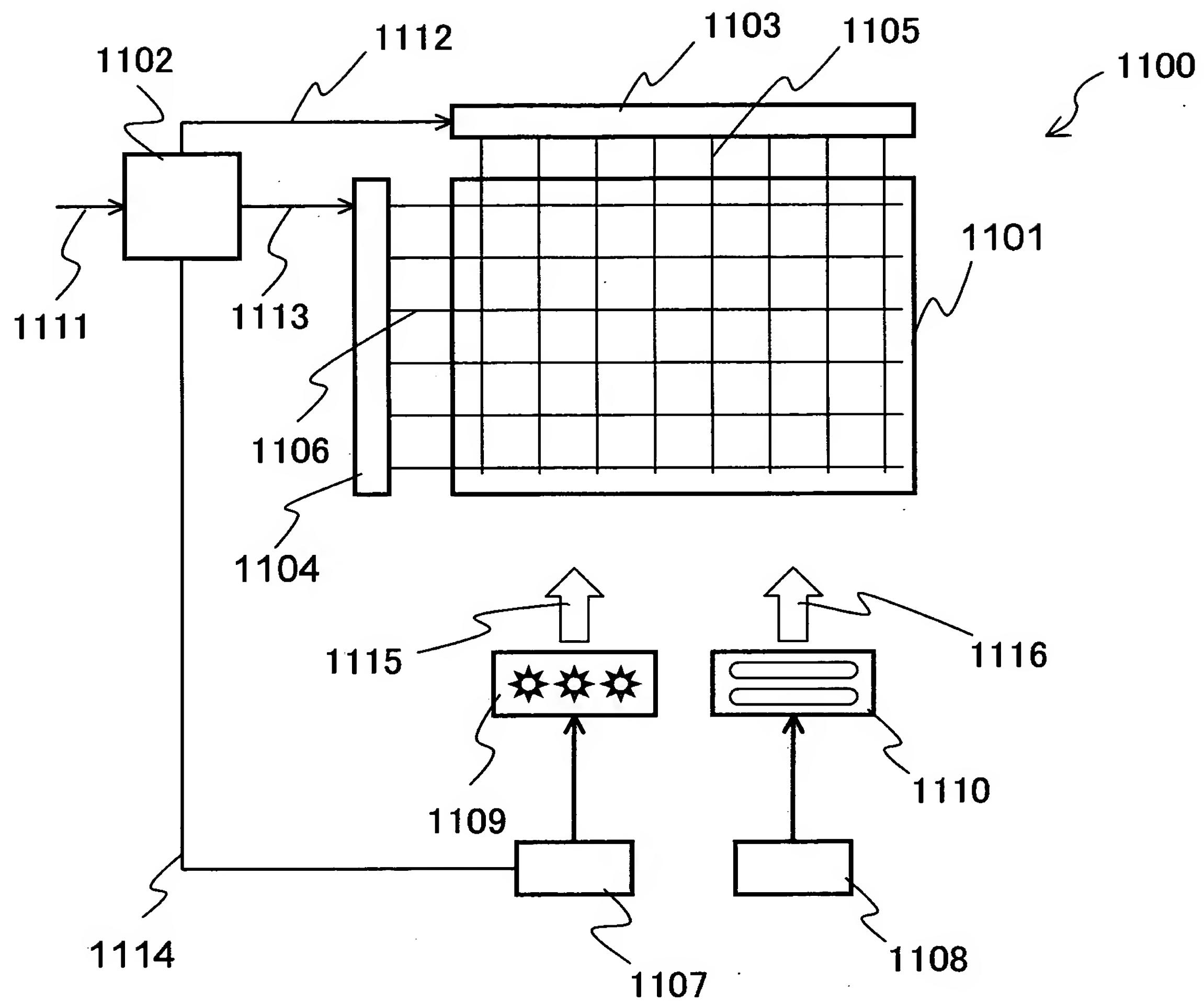
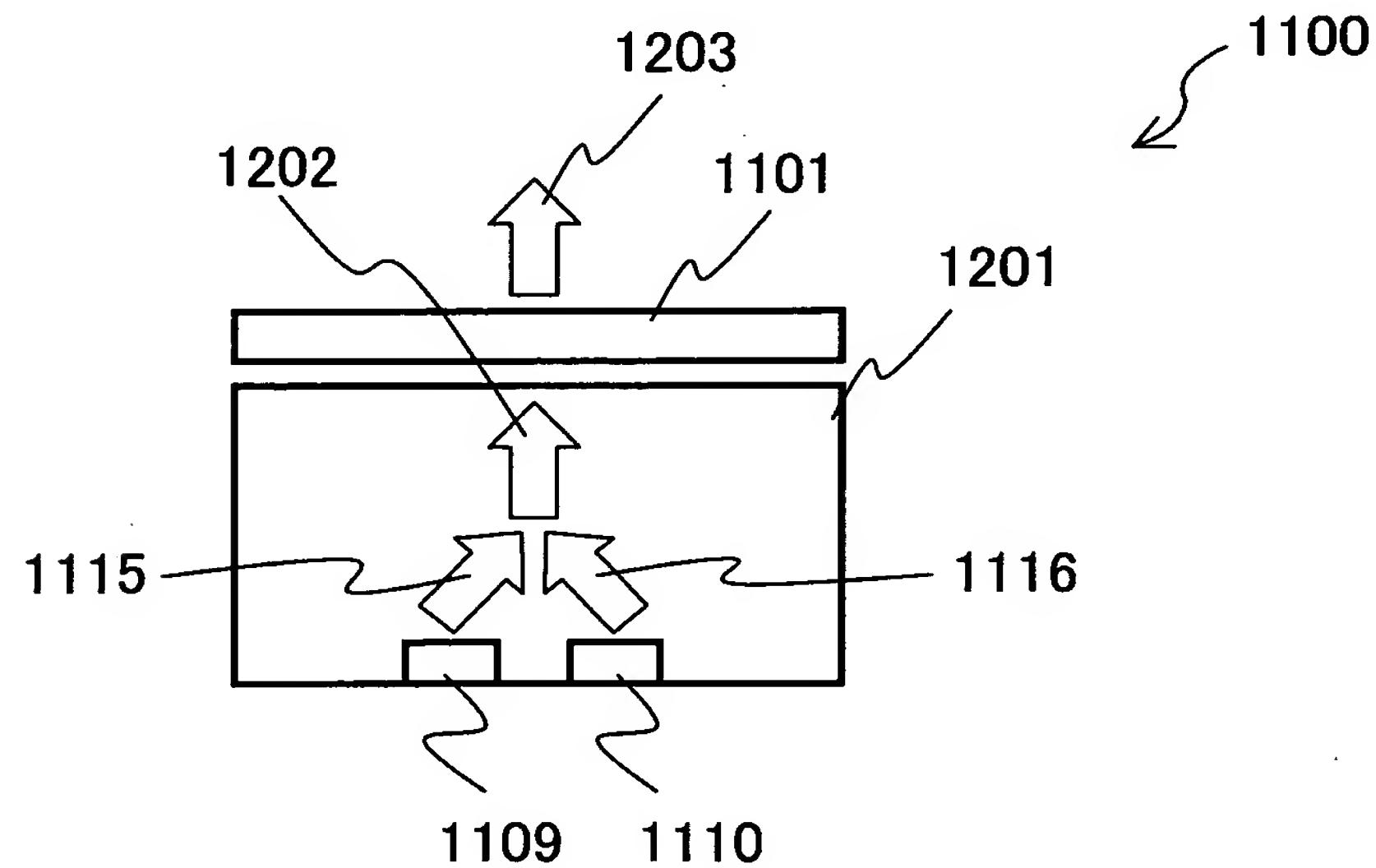
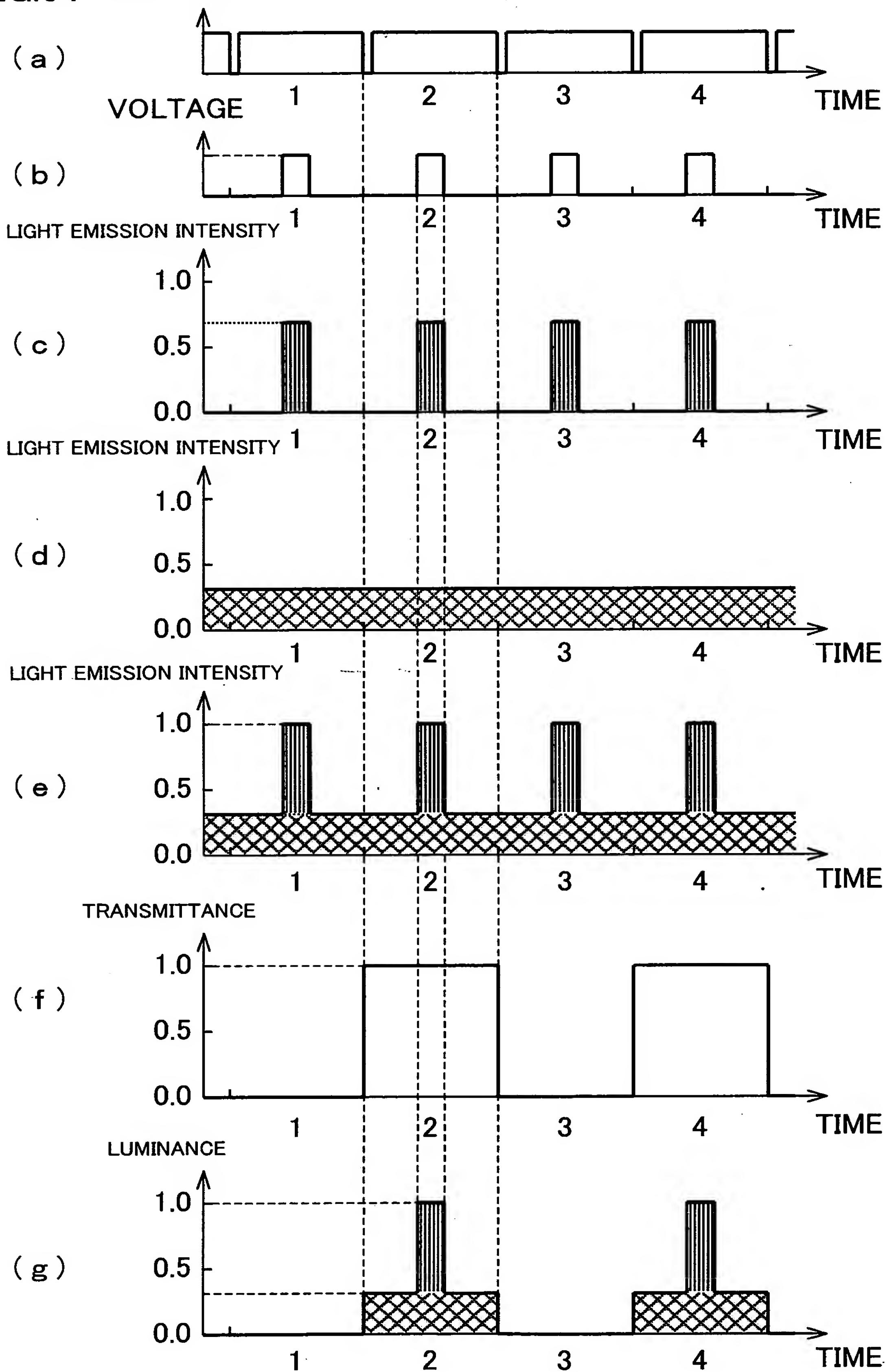


FIG.63



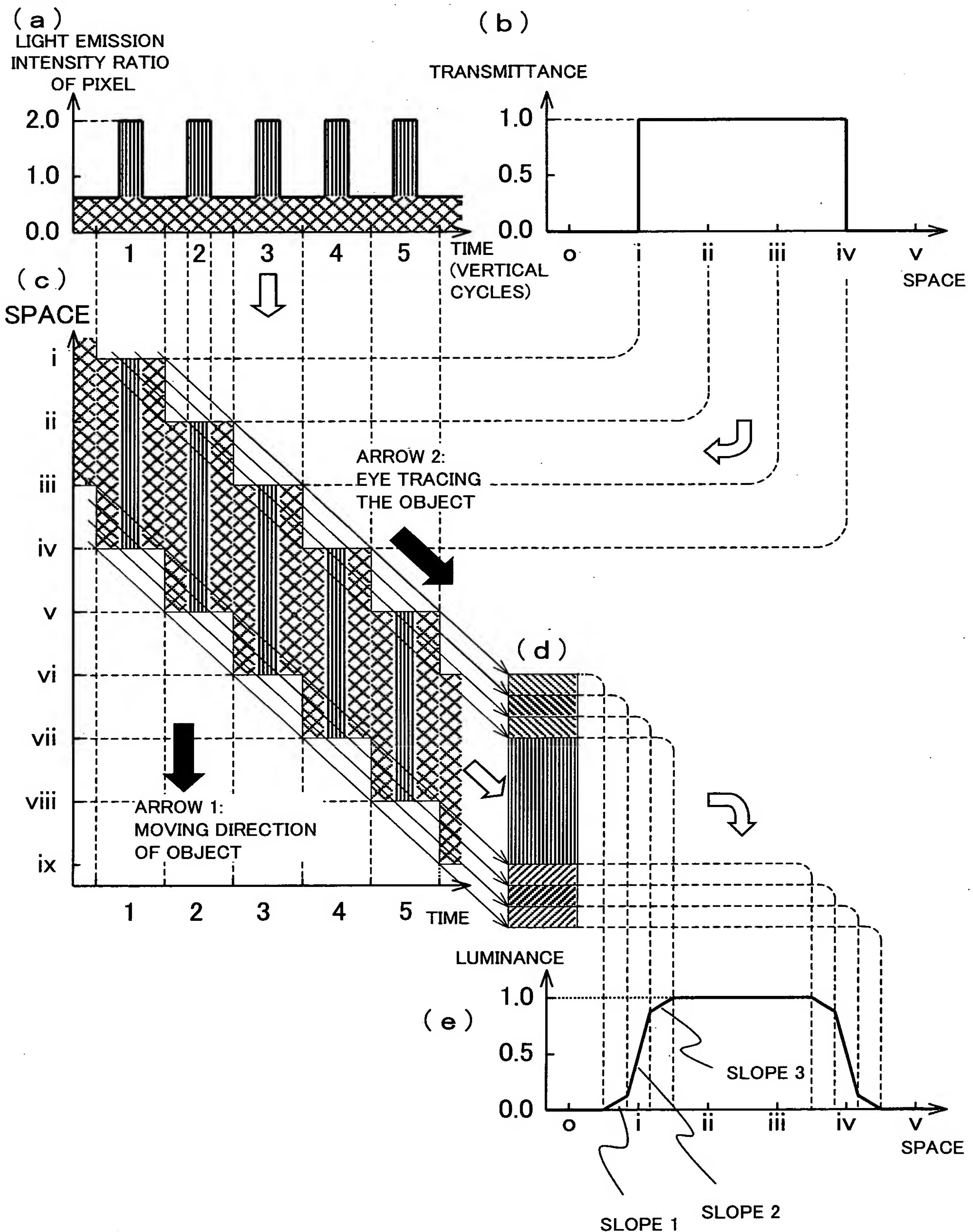
6 2 / 1 1 4

FIG.64 VOLTAGE



6 3 / 1 1 4

FIG.65



6 4 / 1 1 4

FIG.66(a)

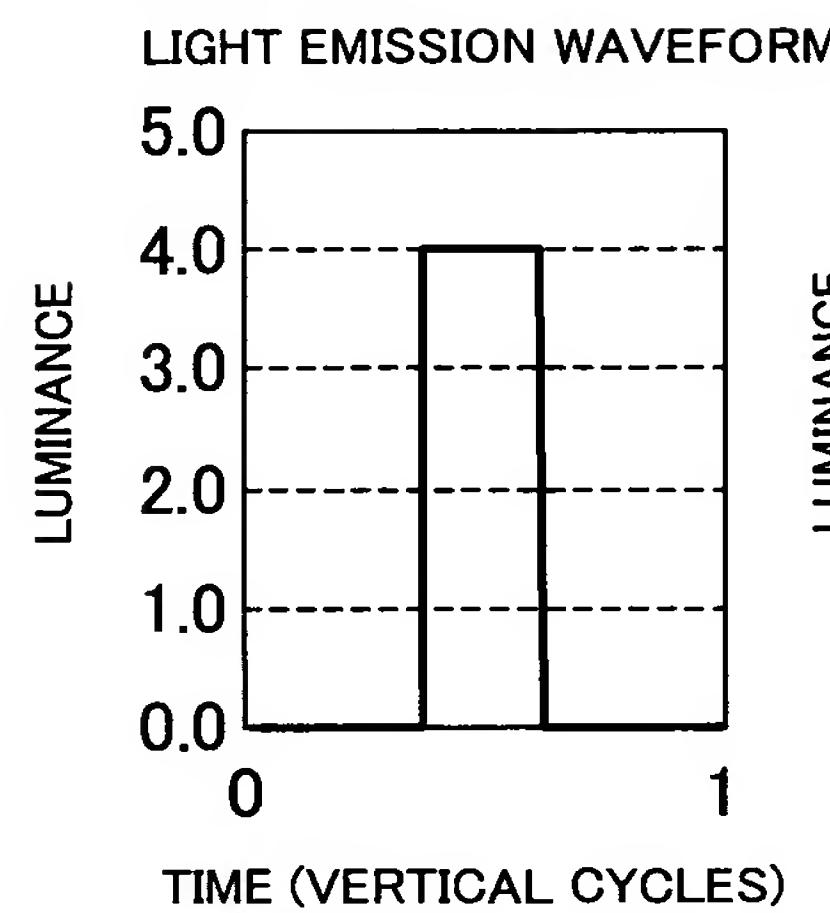


FIG.66(b)

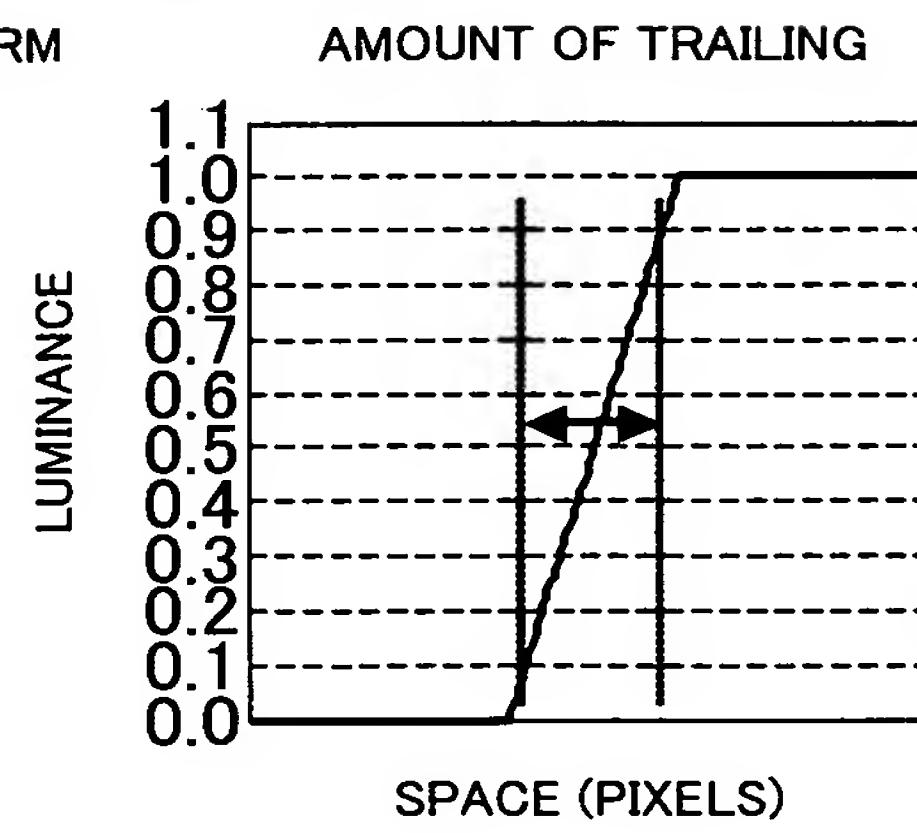


FIG.66(c)

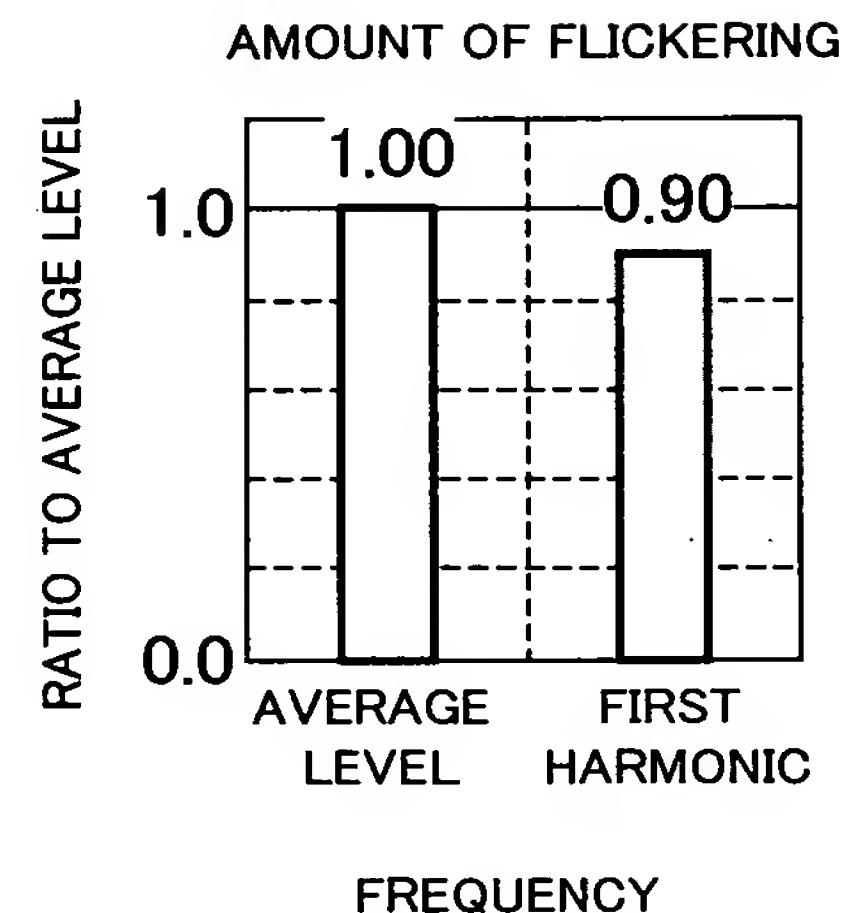


FIG.66(d)

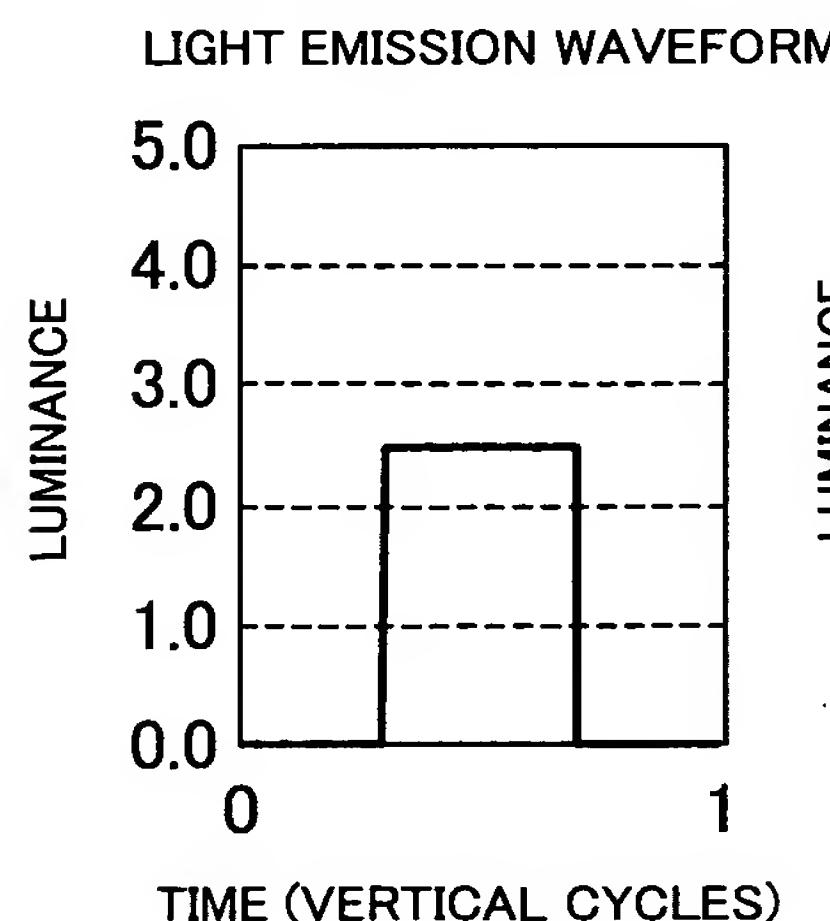


FIG.66(e)

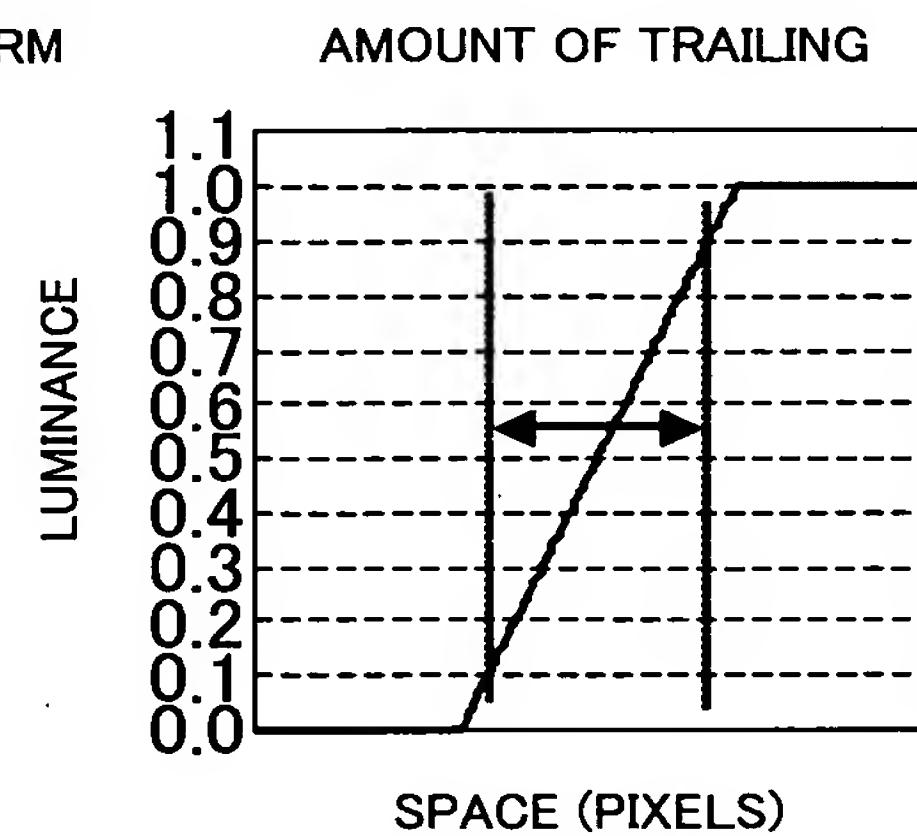


FIG.66(f)

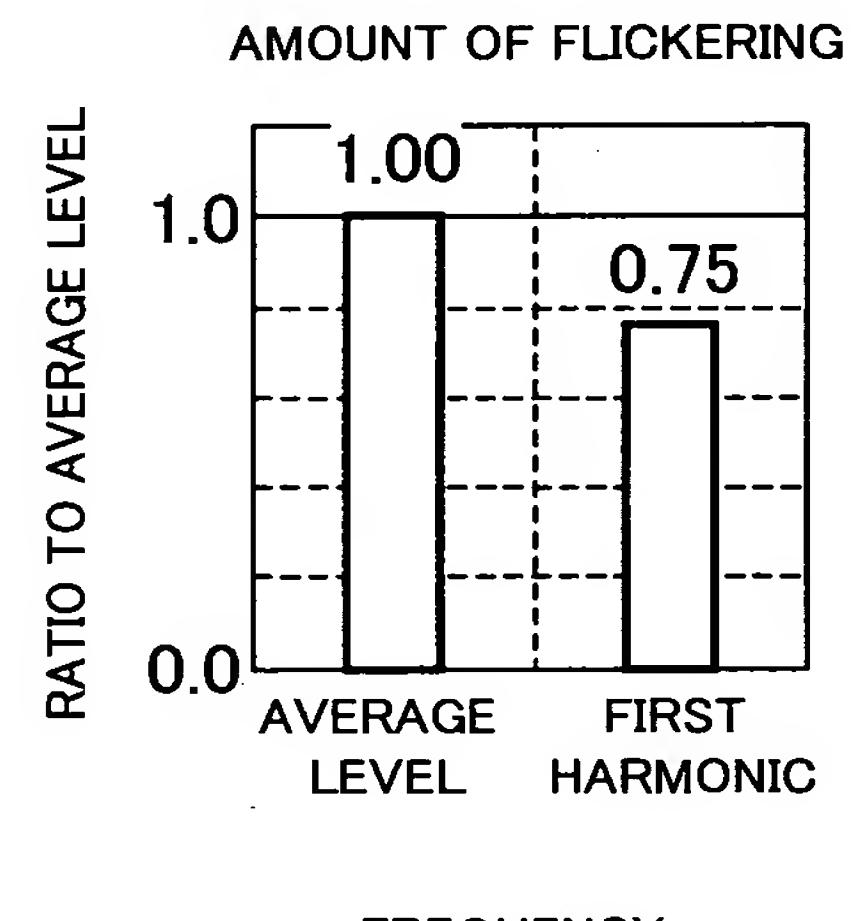


FIG.66(g)

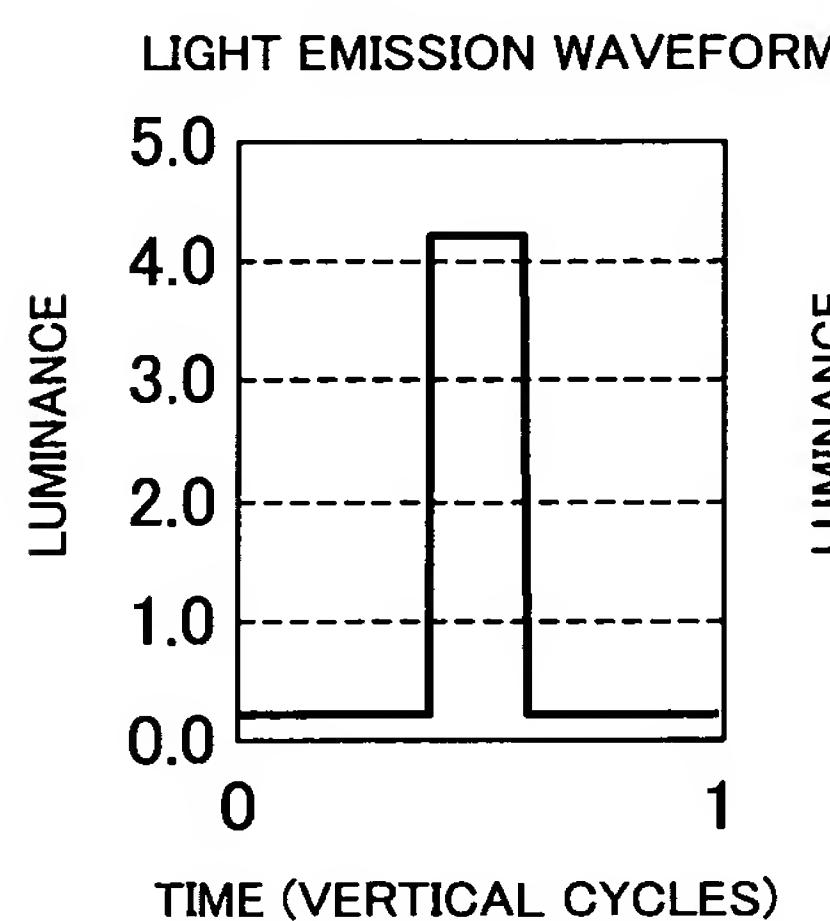


FIG.66(h)

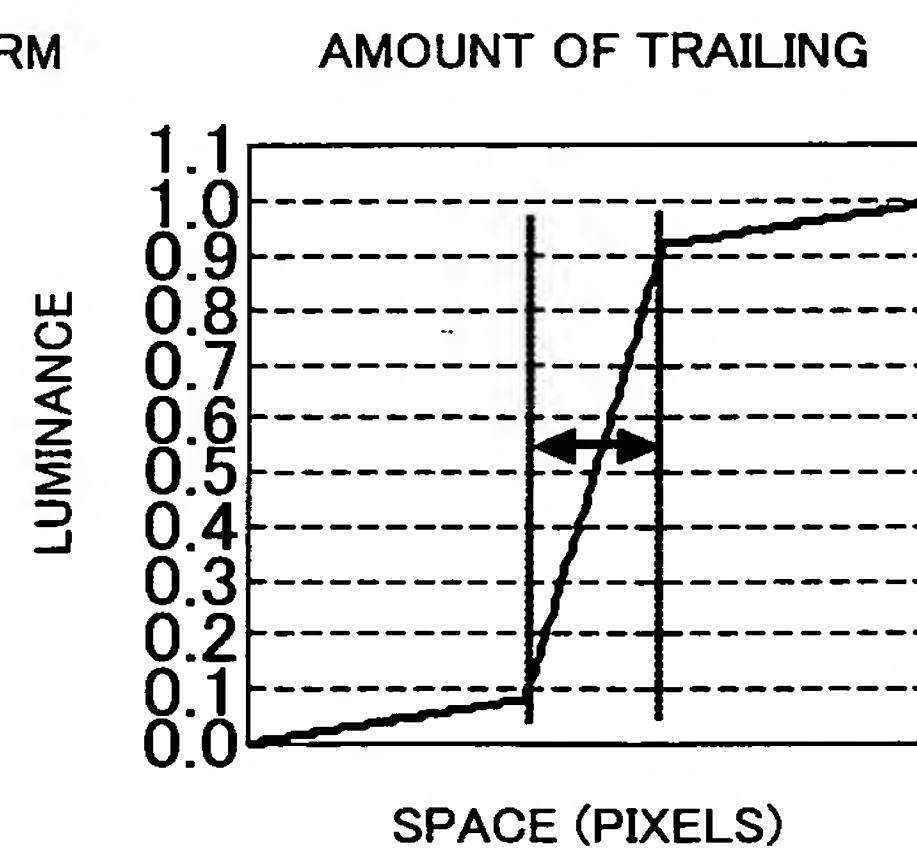
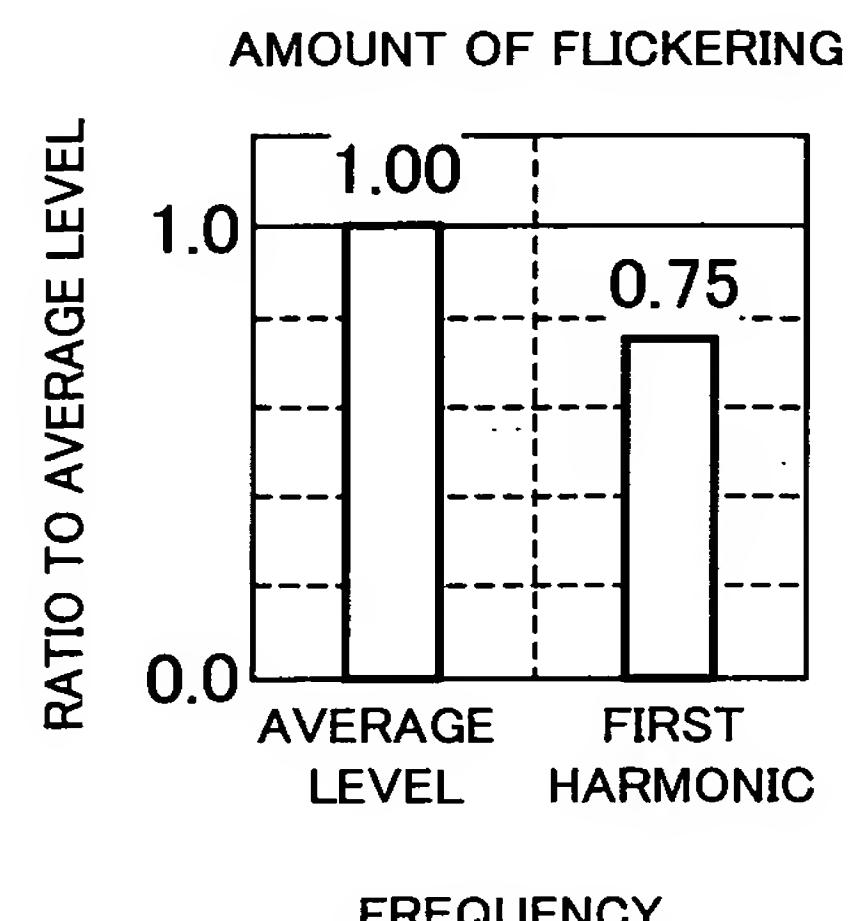


FIG.66(i)



6 5 / 1 1 4

FIG.67

		COL. 1	COL. 2	COL. 3	COL. 4
		DUTY RATIO D (%) OF INTERMITTENT LIGHT EMISSION COMPONENT	LIGHT EMISSION INTENSITY RATIO S1 (%) OF INTERMITTENT LIGHT EMISSION COMPONENT	AMOUNT OF TRAILING [PIXEL]	AMOUNT OF FLICKERING [%]
ROW 1	CONVENTIONAL EX.	25	100	0.20	90
ROW 2	CONVENTIONAL EX.	40	100	0.32	75
ROW 3	PRESENT EMBODIMENT	20	80	0.20	75

FIG.68

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

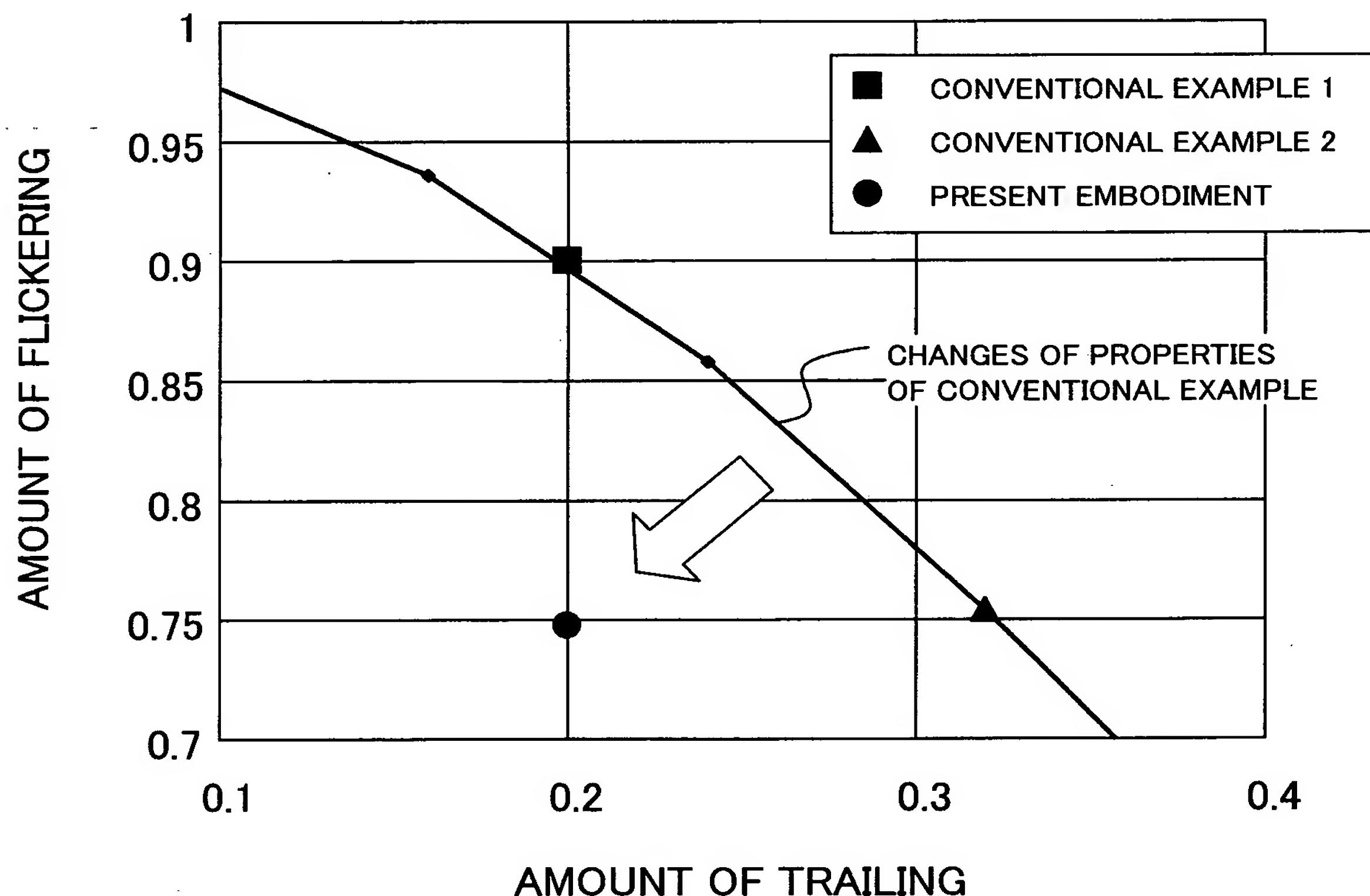


FIG.69(a)

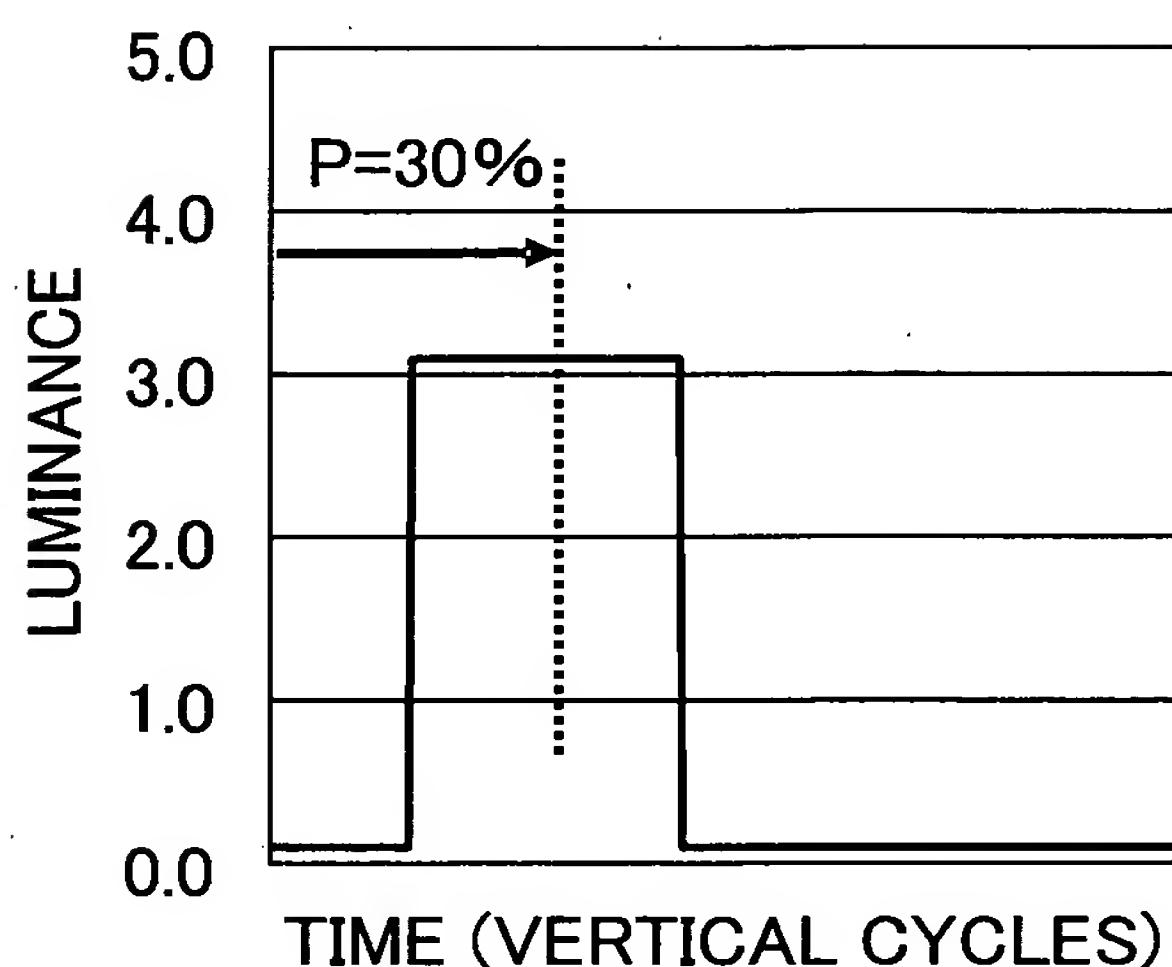


FIG.69(b)

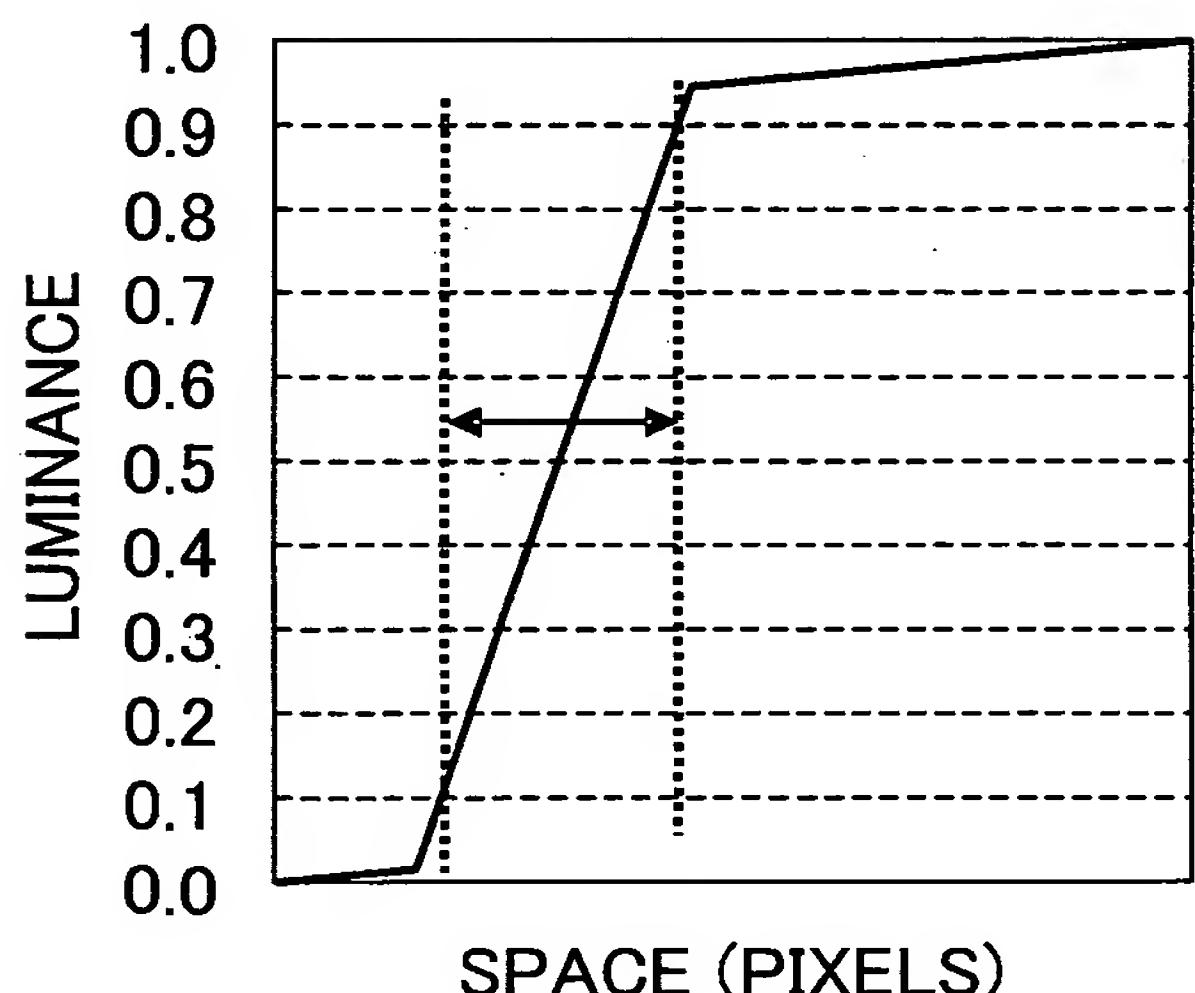


FIG.69(c)

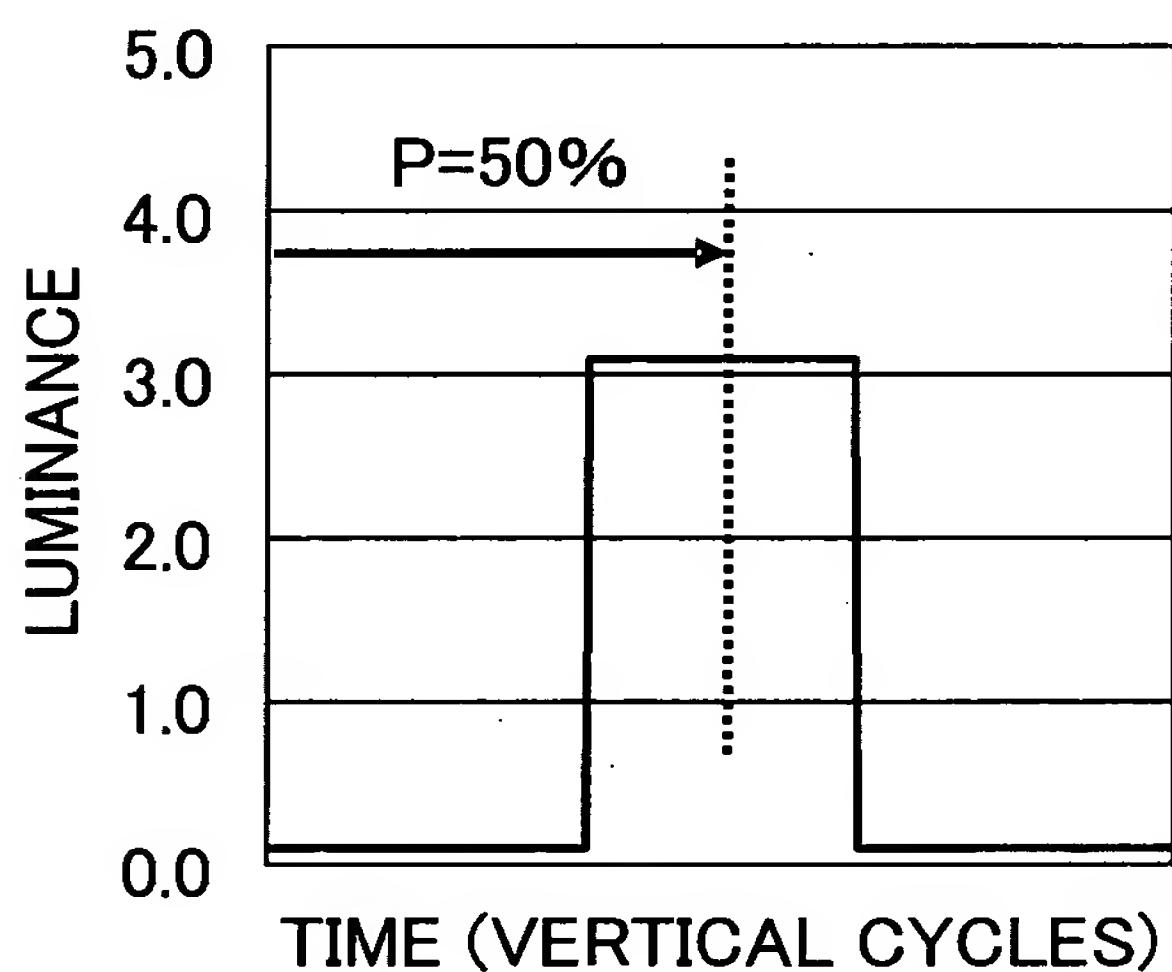


FIG.69(d)

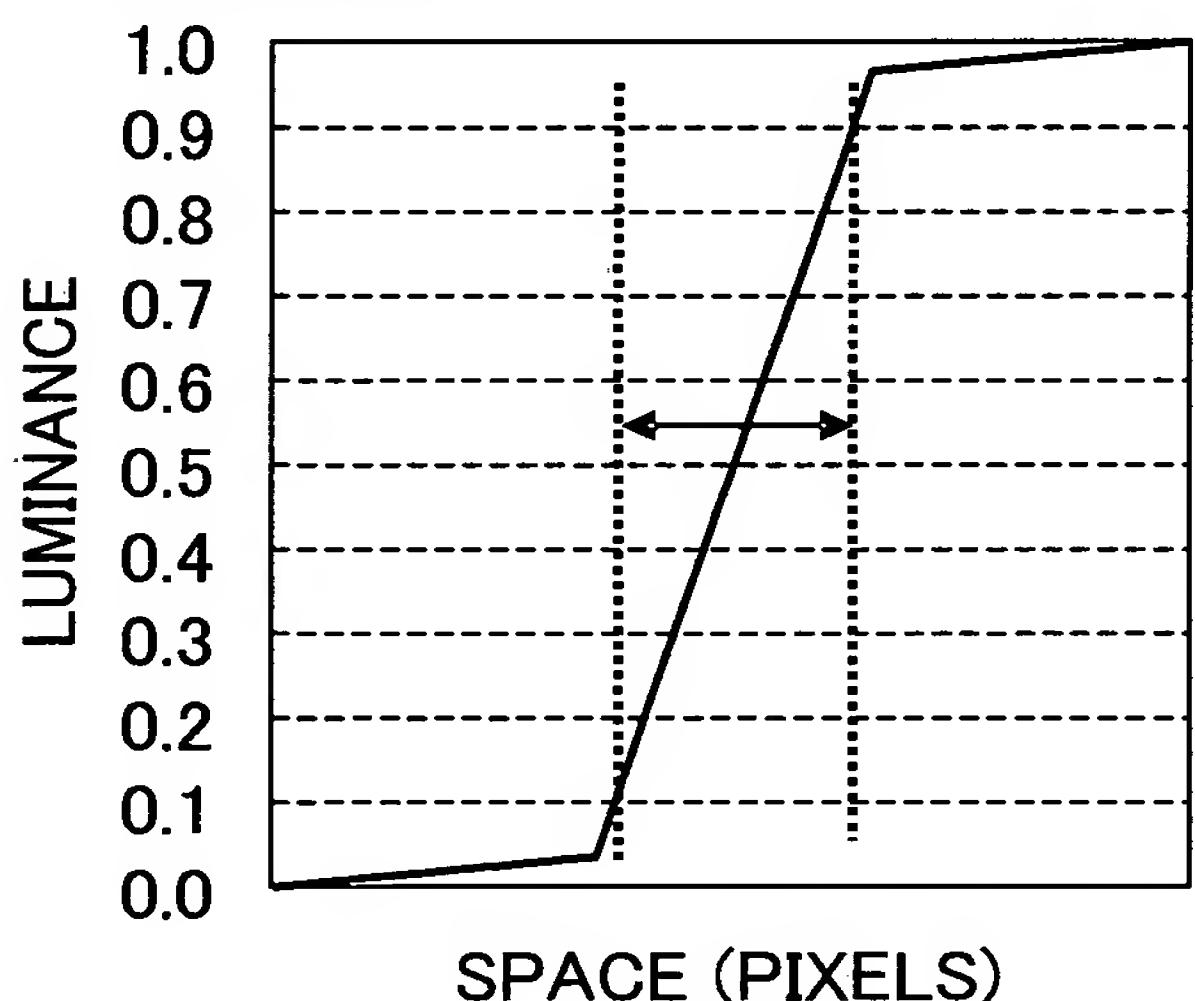


FIG.69(e)

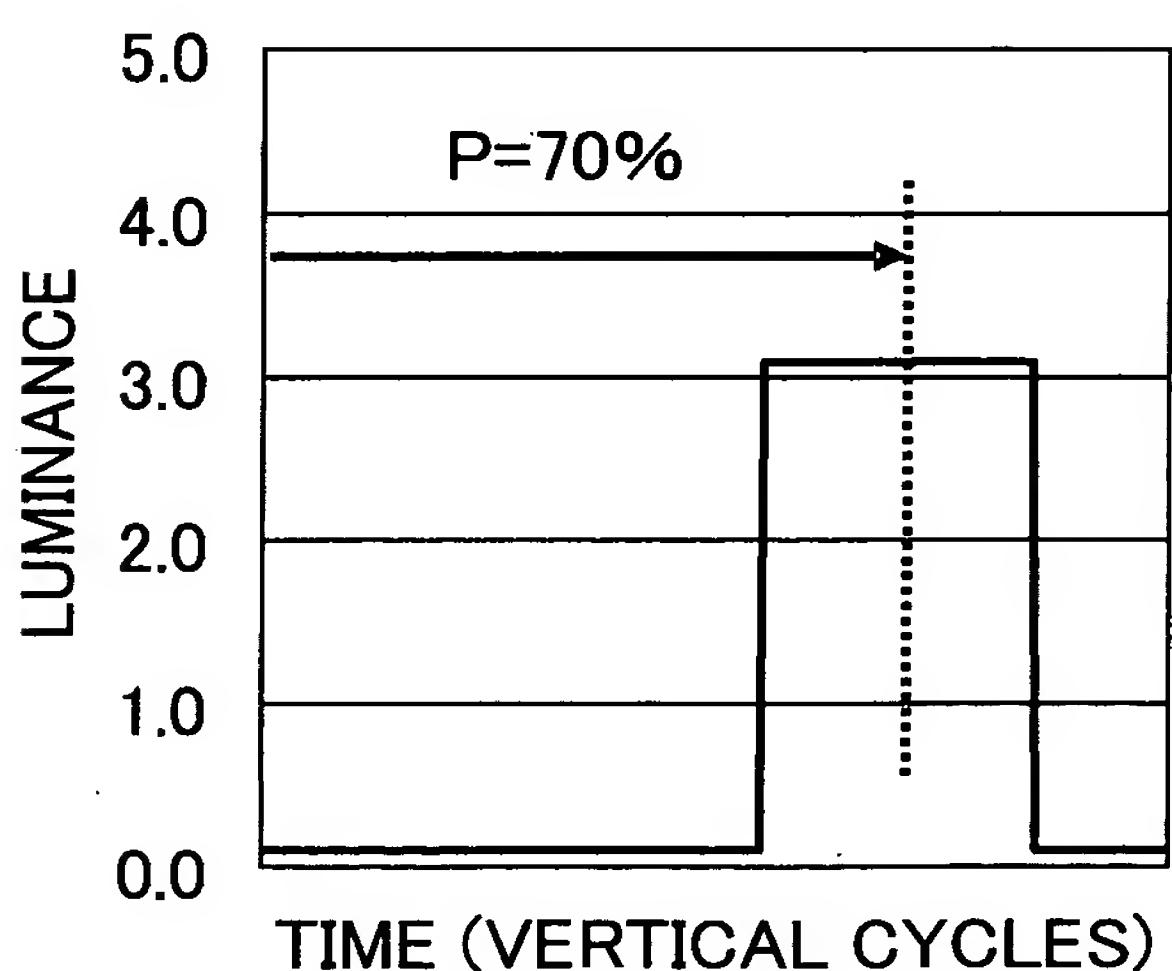


FIG.69(f)

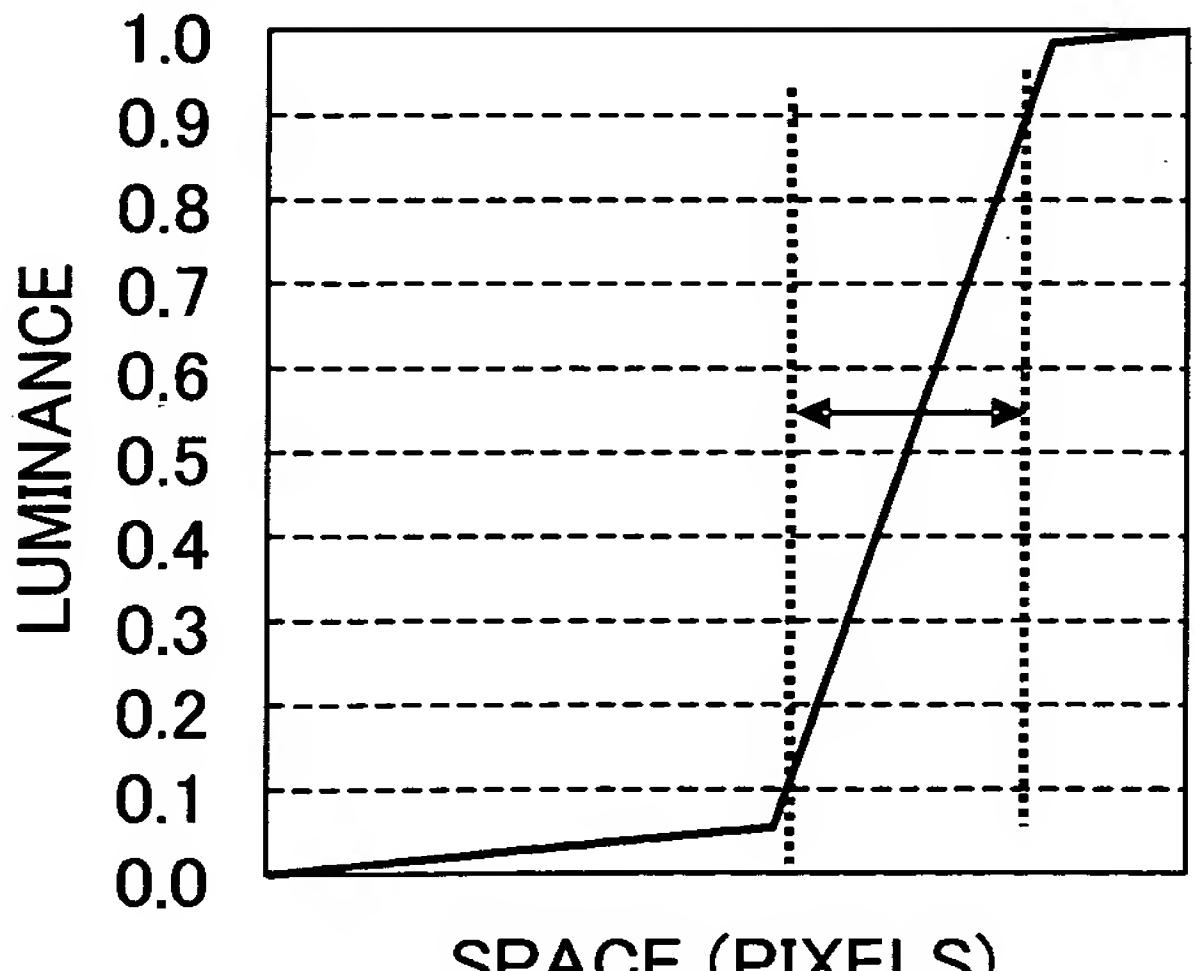


FIG.70(a)

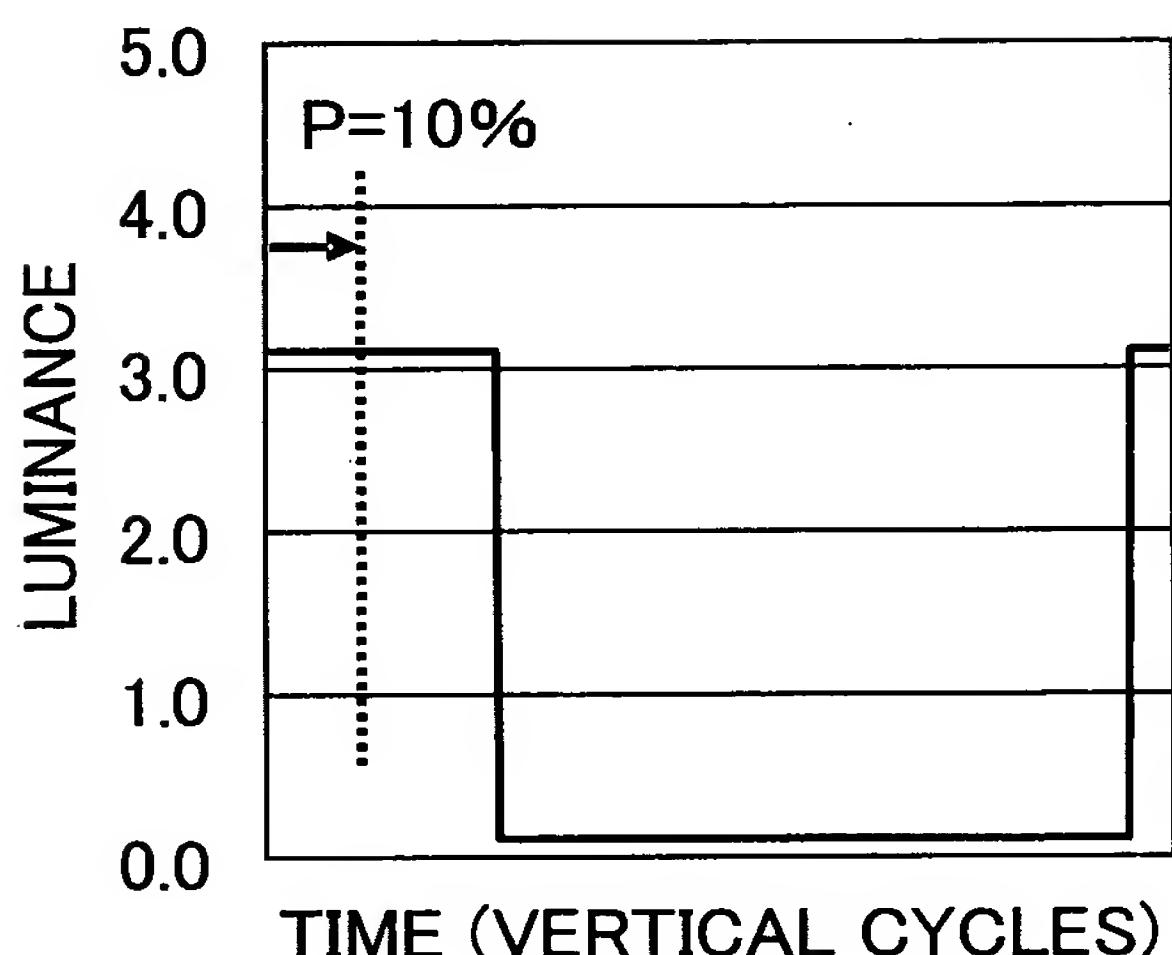


FIG.70(b)

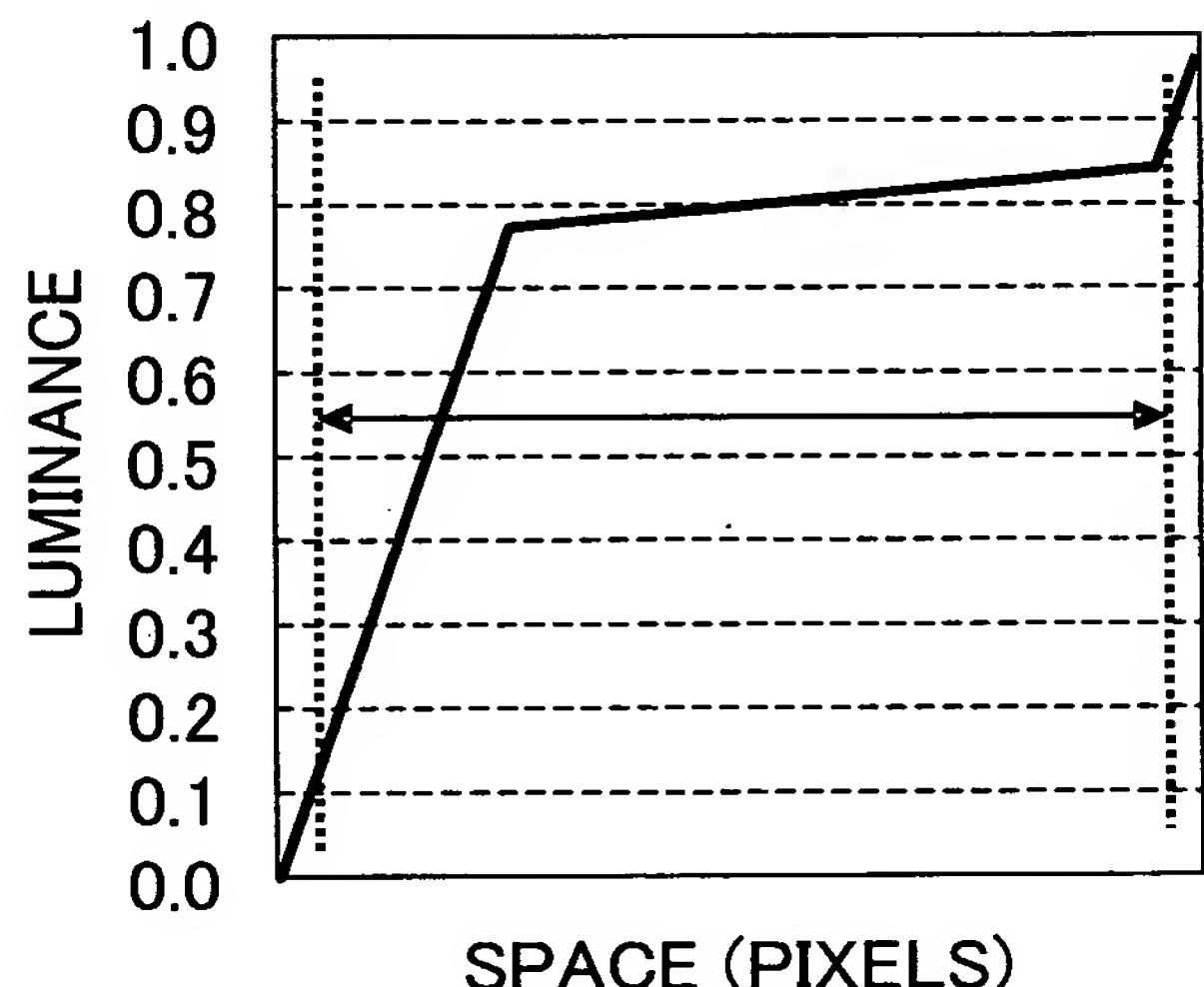


FIG.70(c)

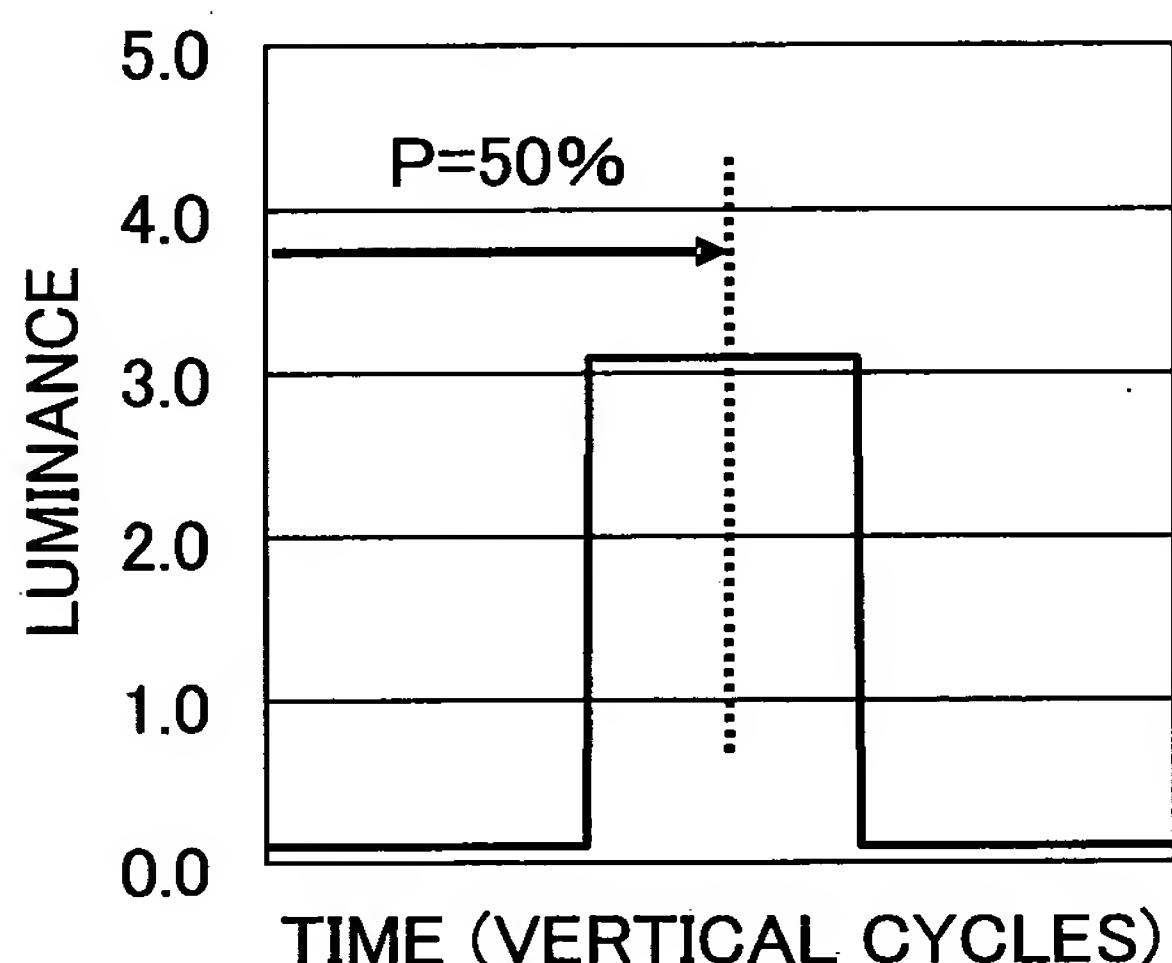


FIG.70(d)

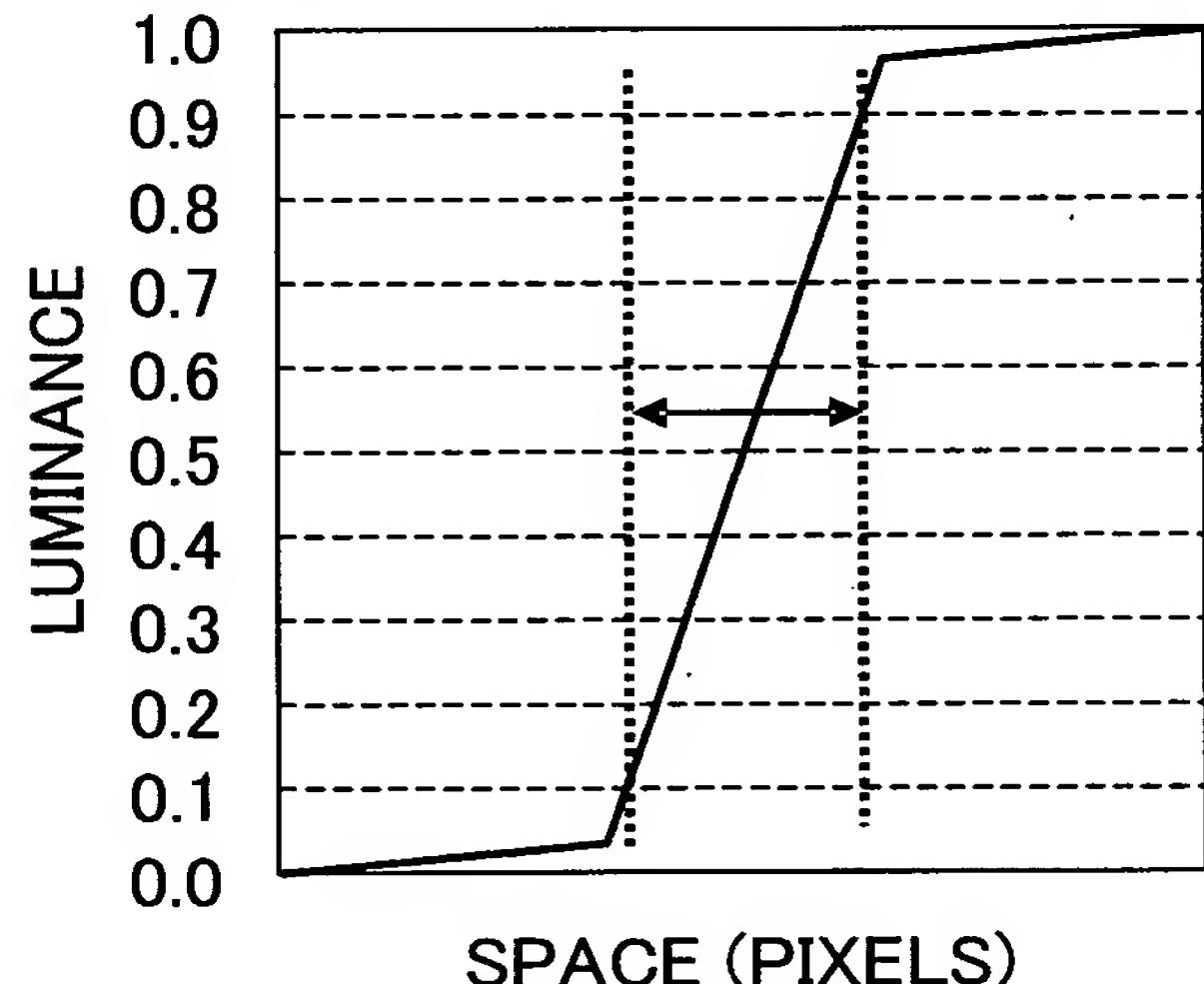


FIG.70(e)

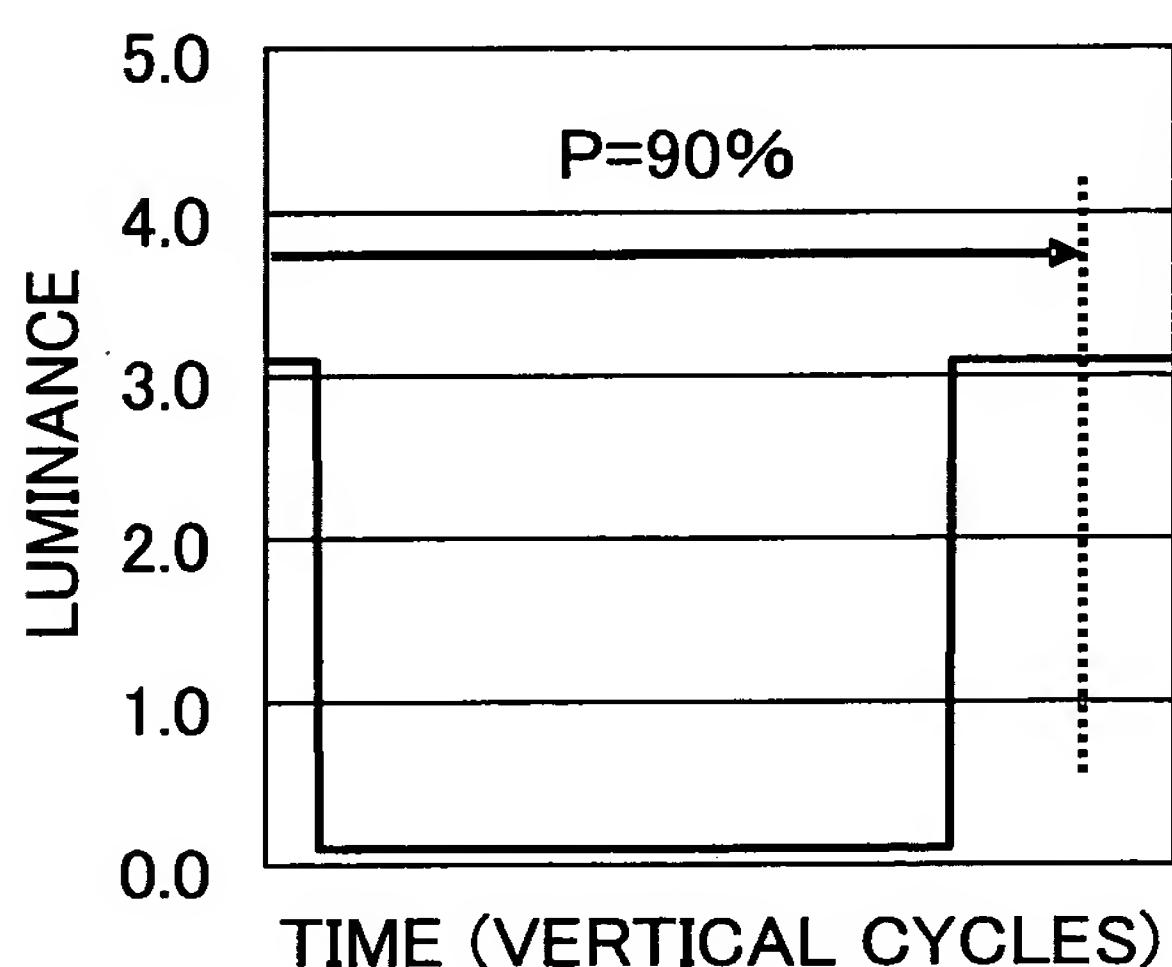


FIG.70(f)

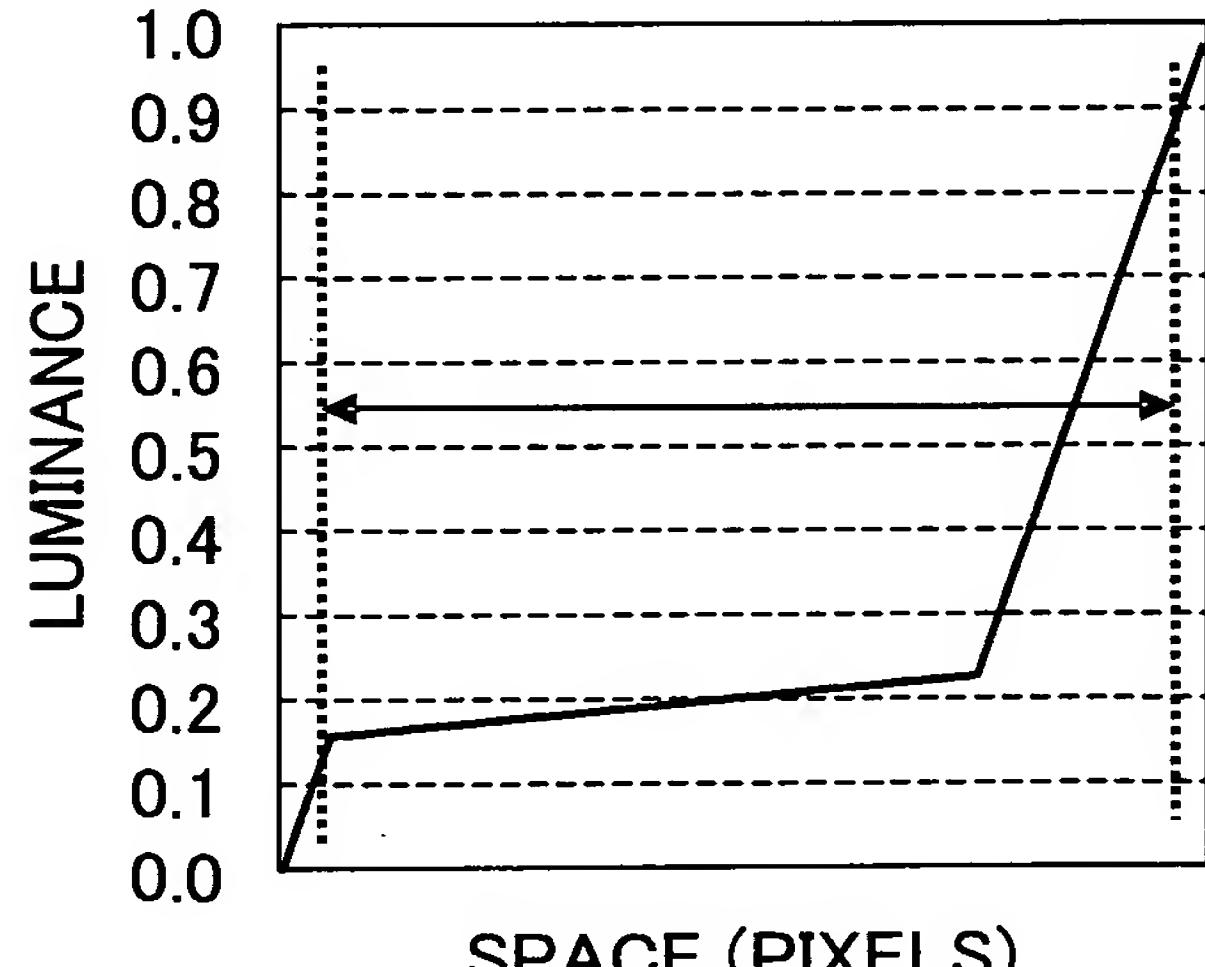


FIG.71 (a)

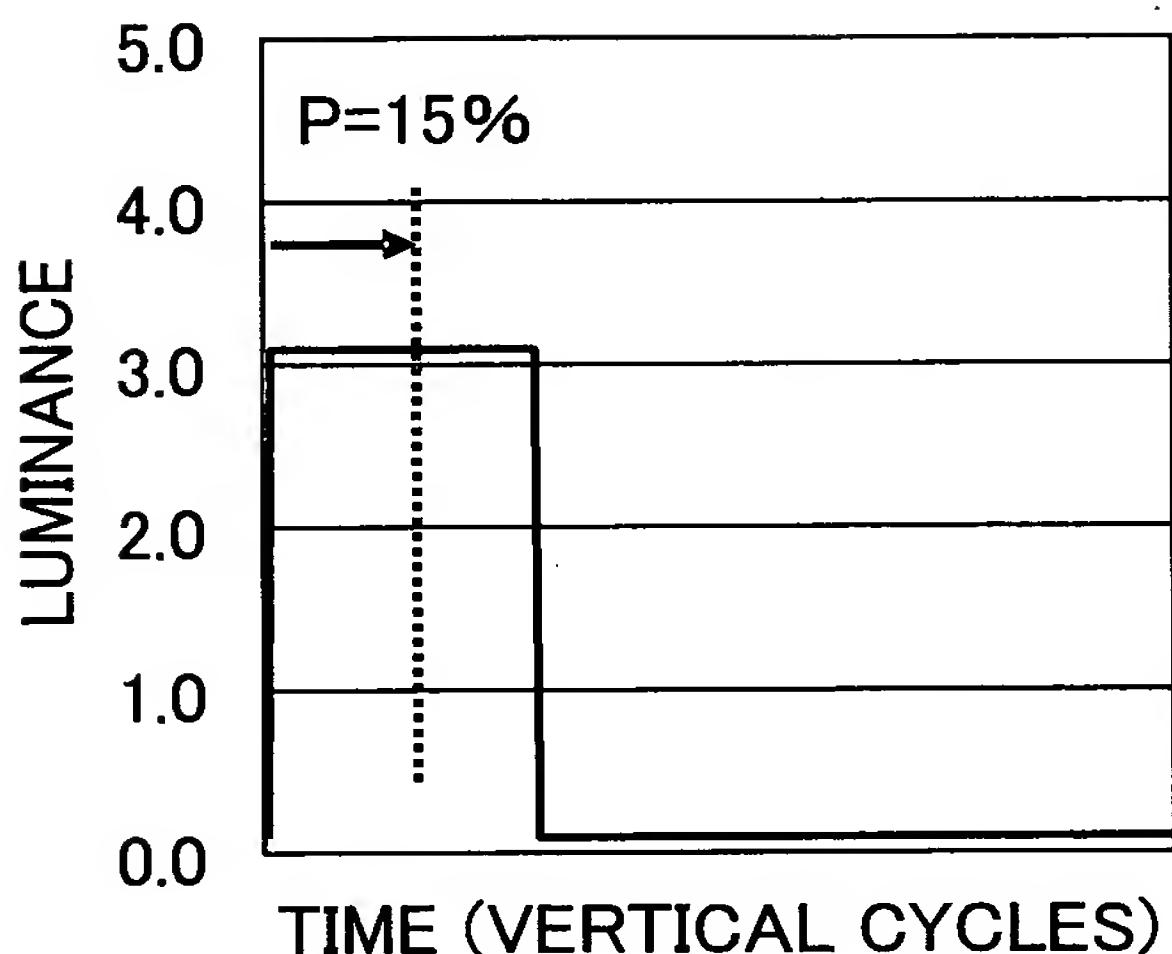


FIG.71 (b)

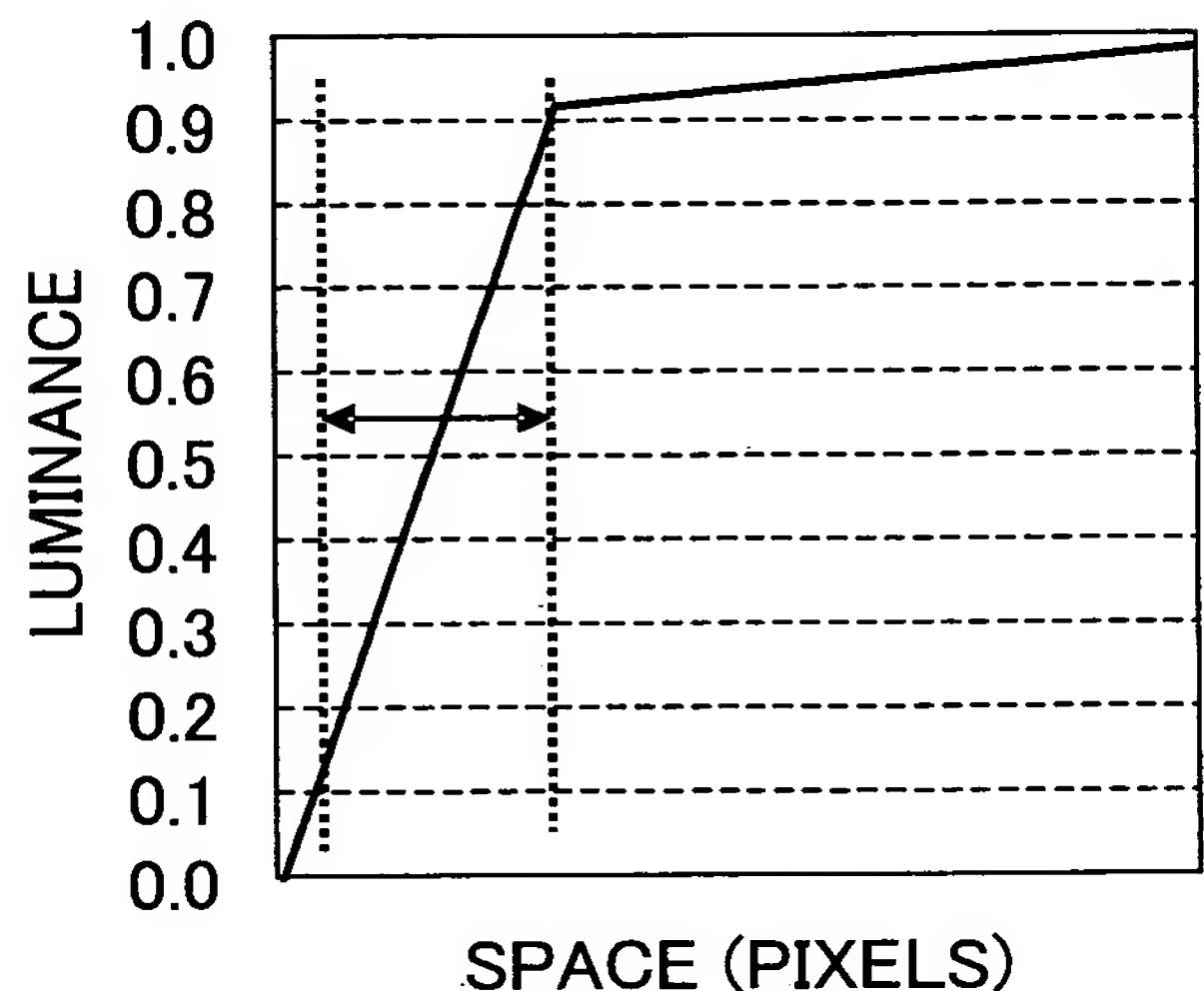


FIG.71 (c)

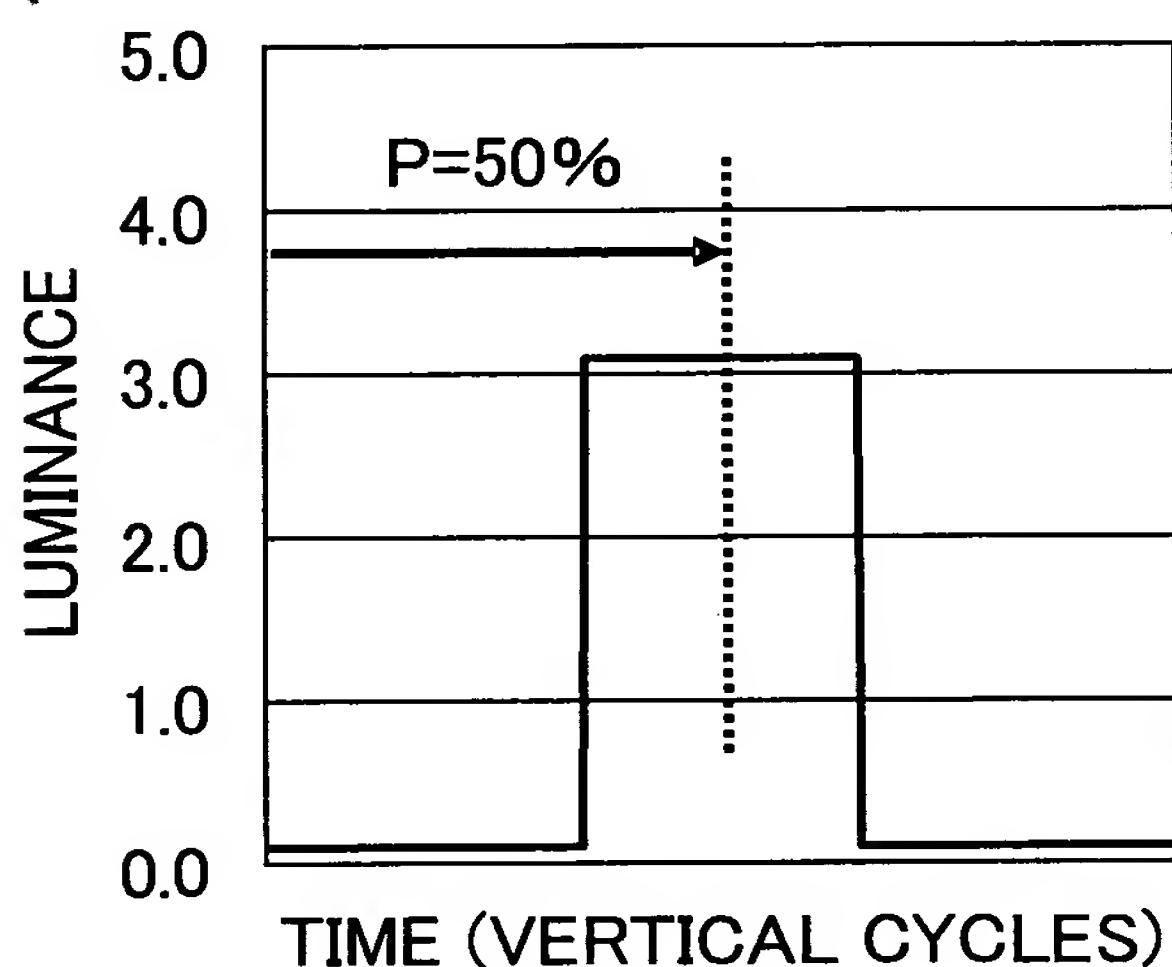


FIG.71 (d)

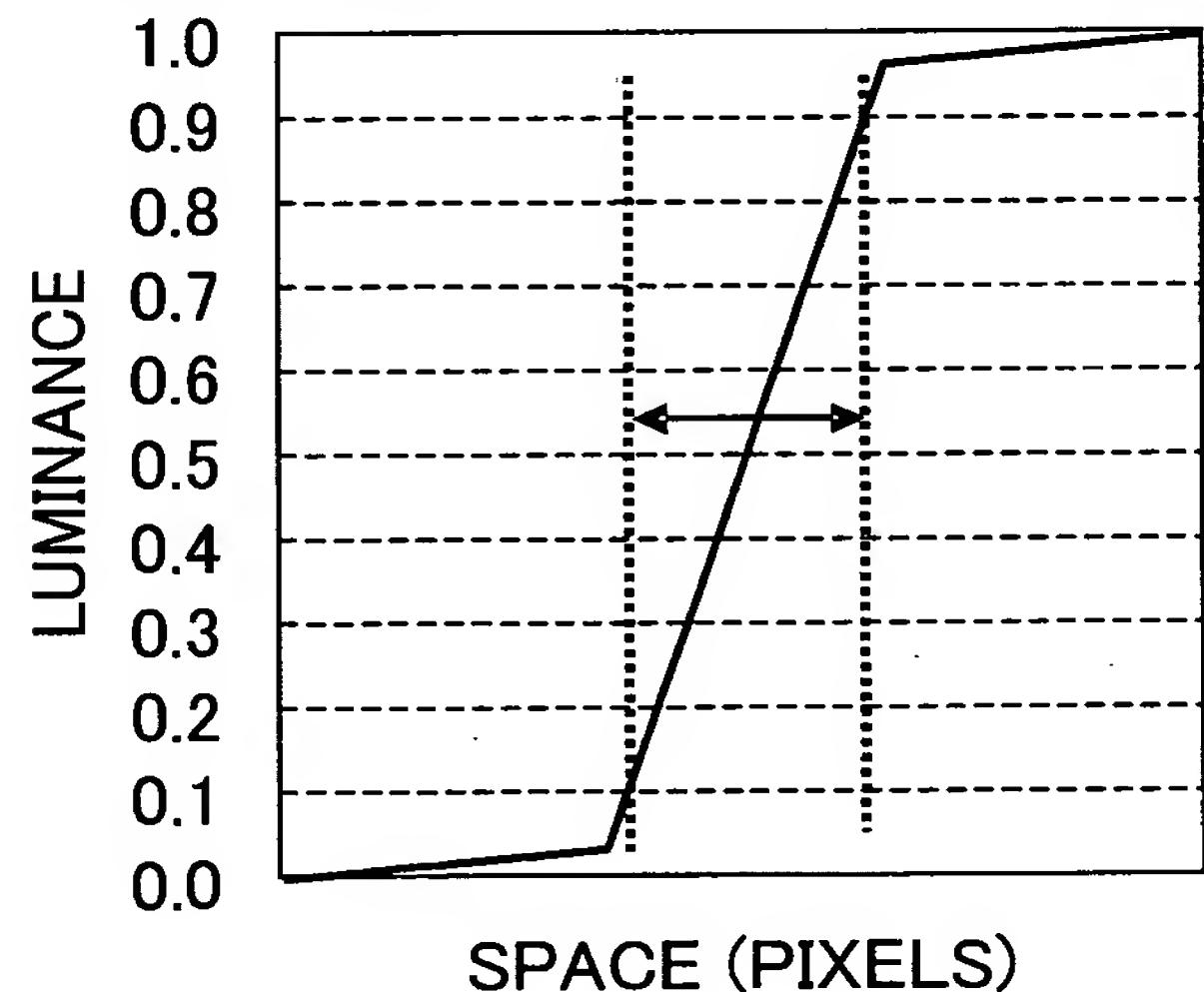


FIG.71 (e)

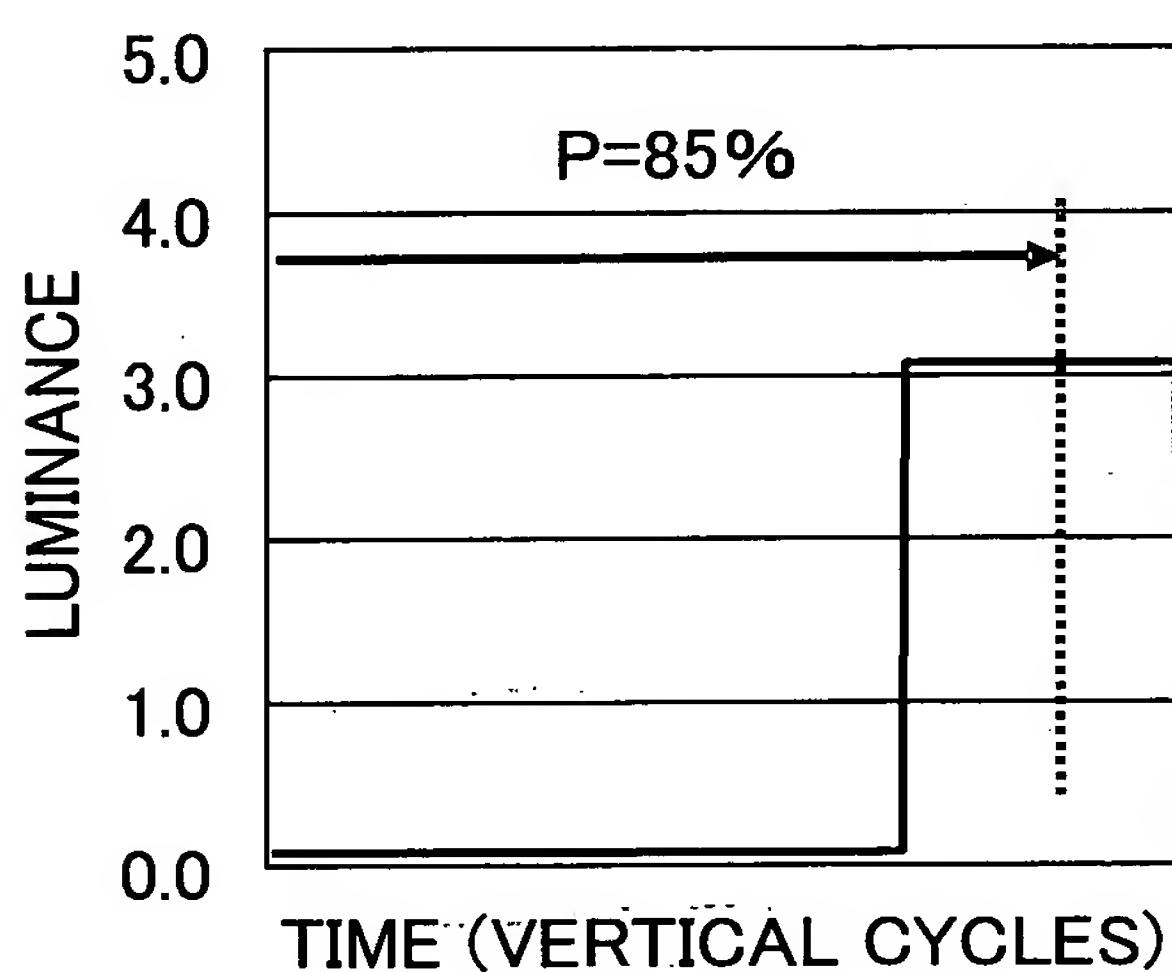
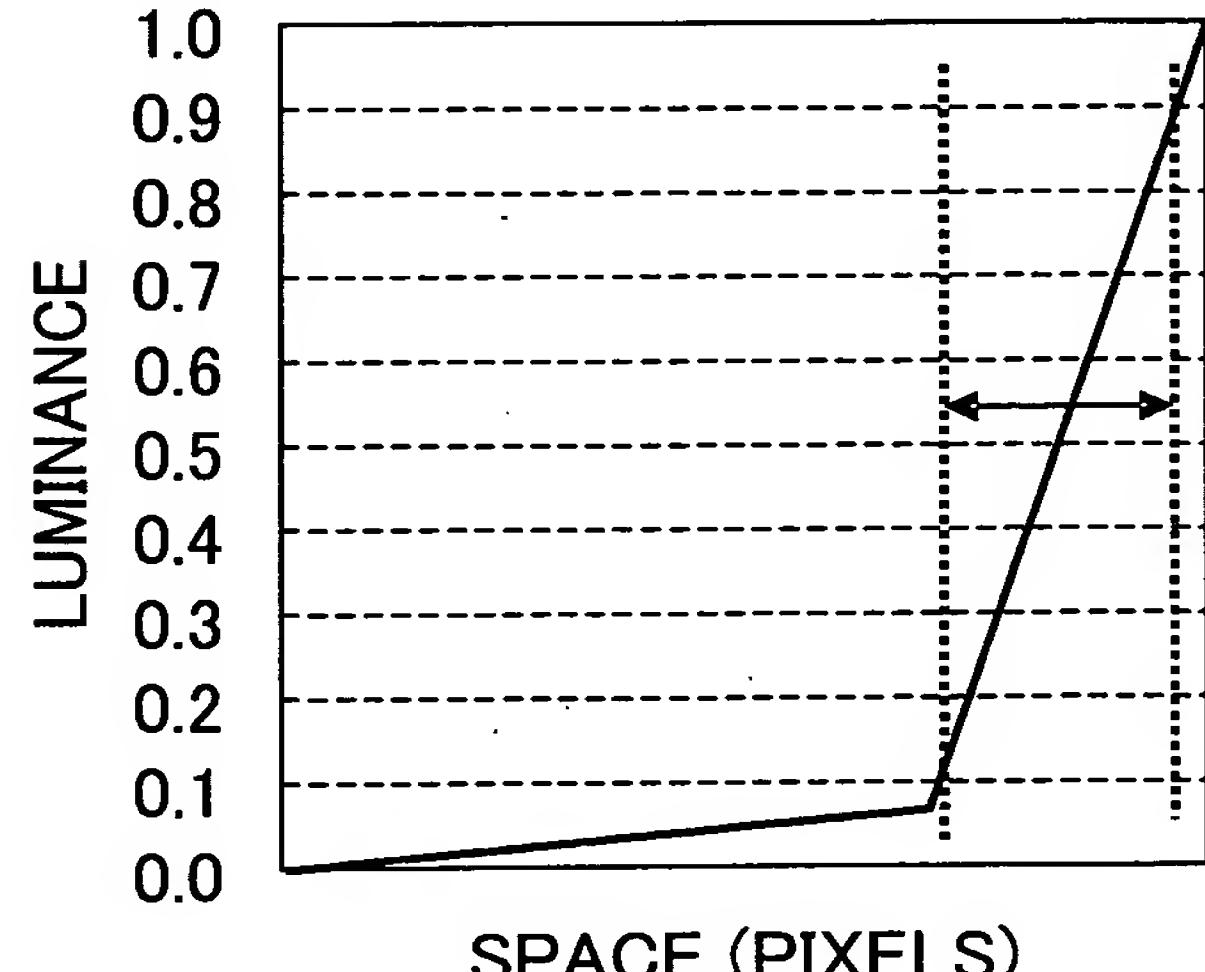


FIG.71 (f)



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FIG.72

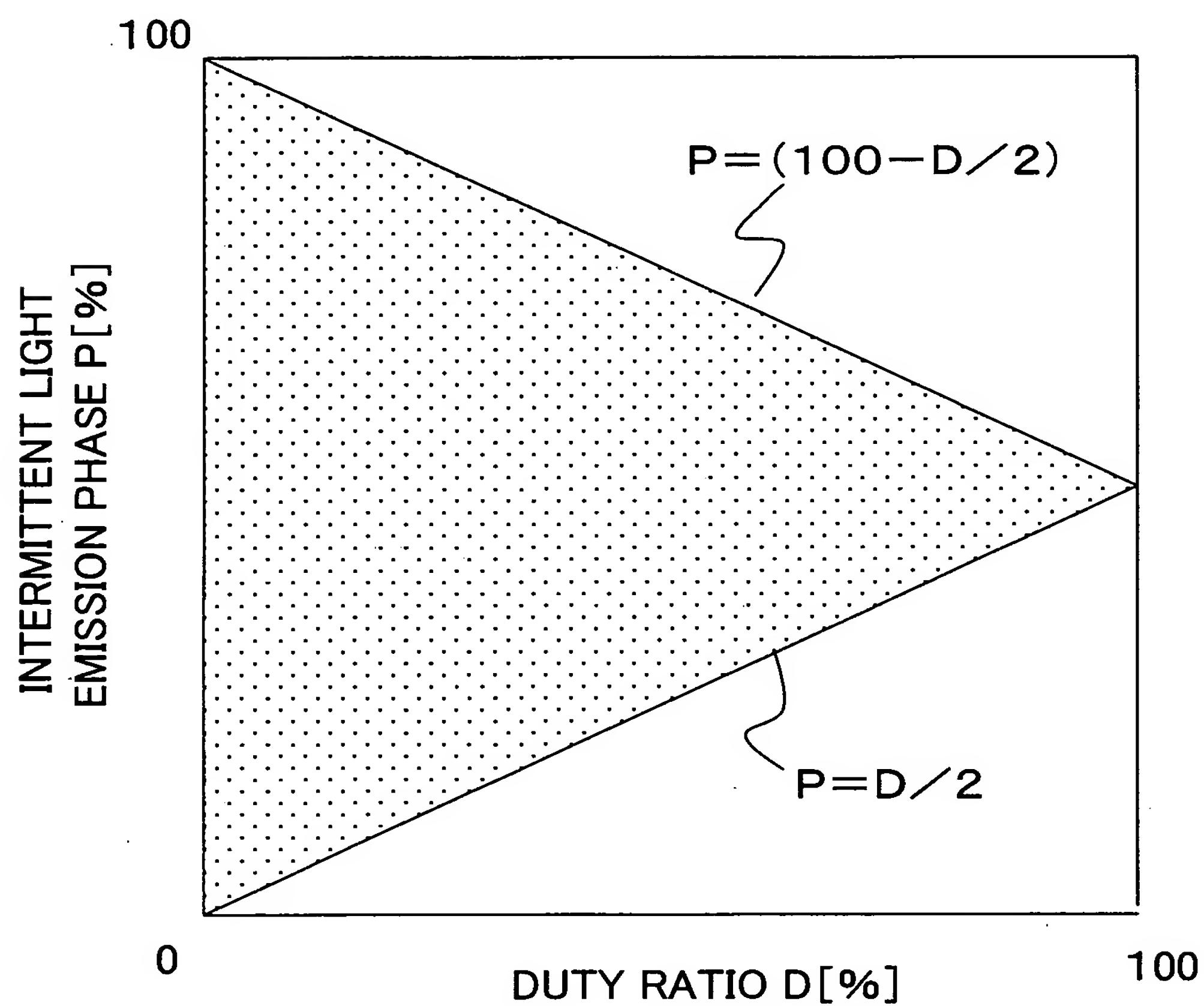
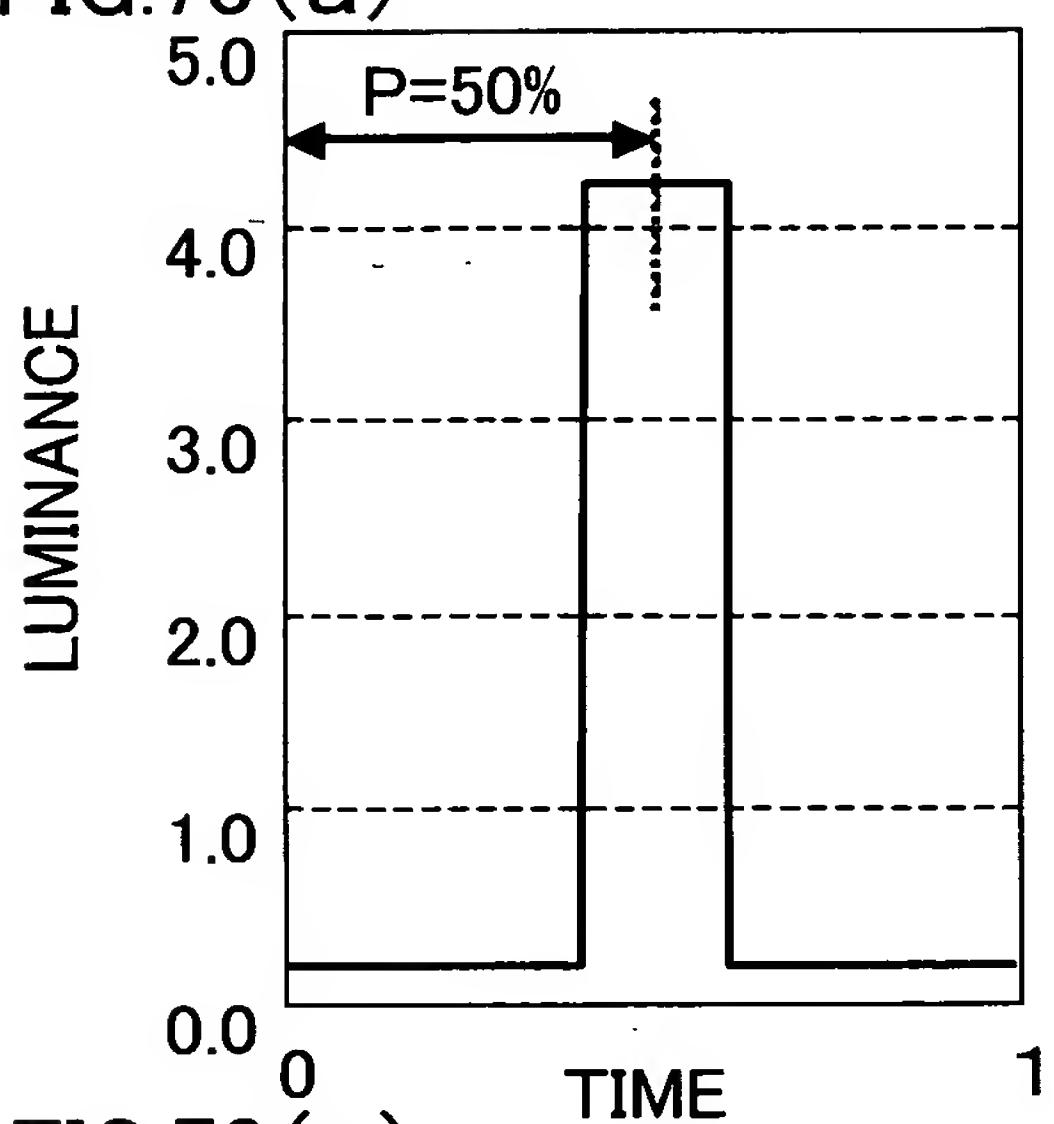


FIG.73(a)



7 0 / 1 1 4

FIG.73(b)

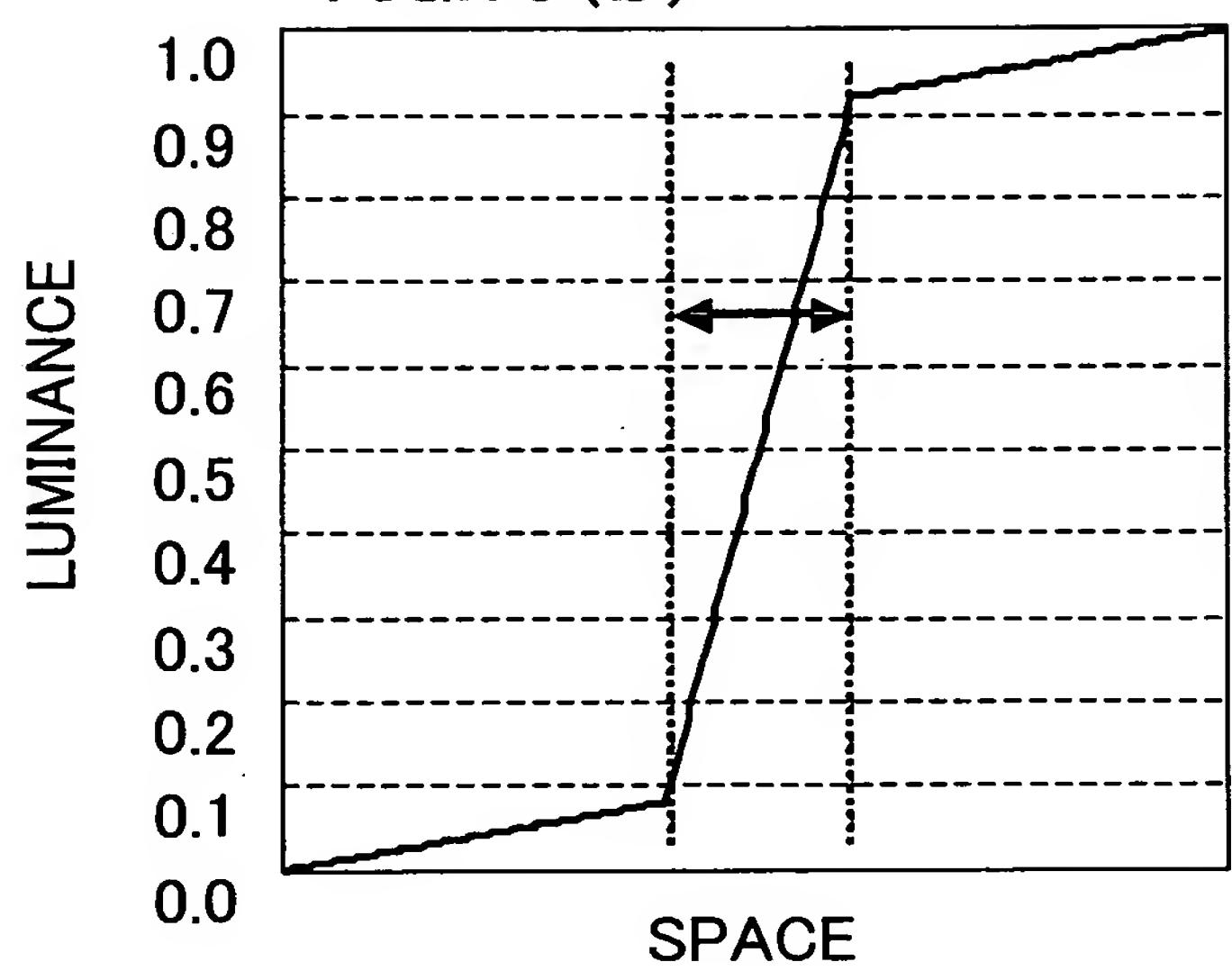


FIG.73(c)

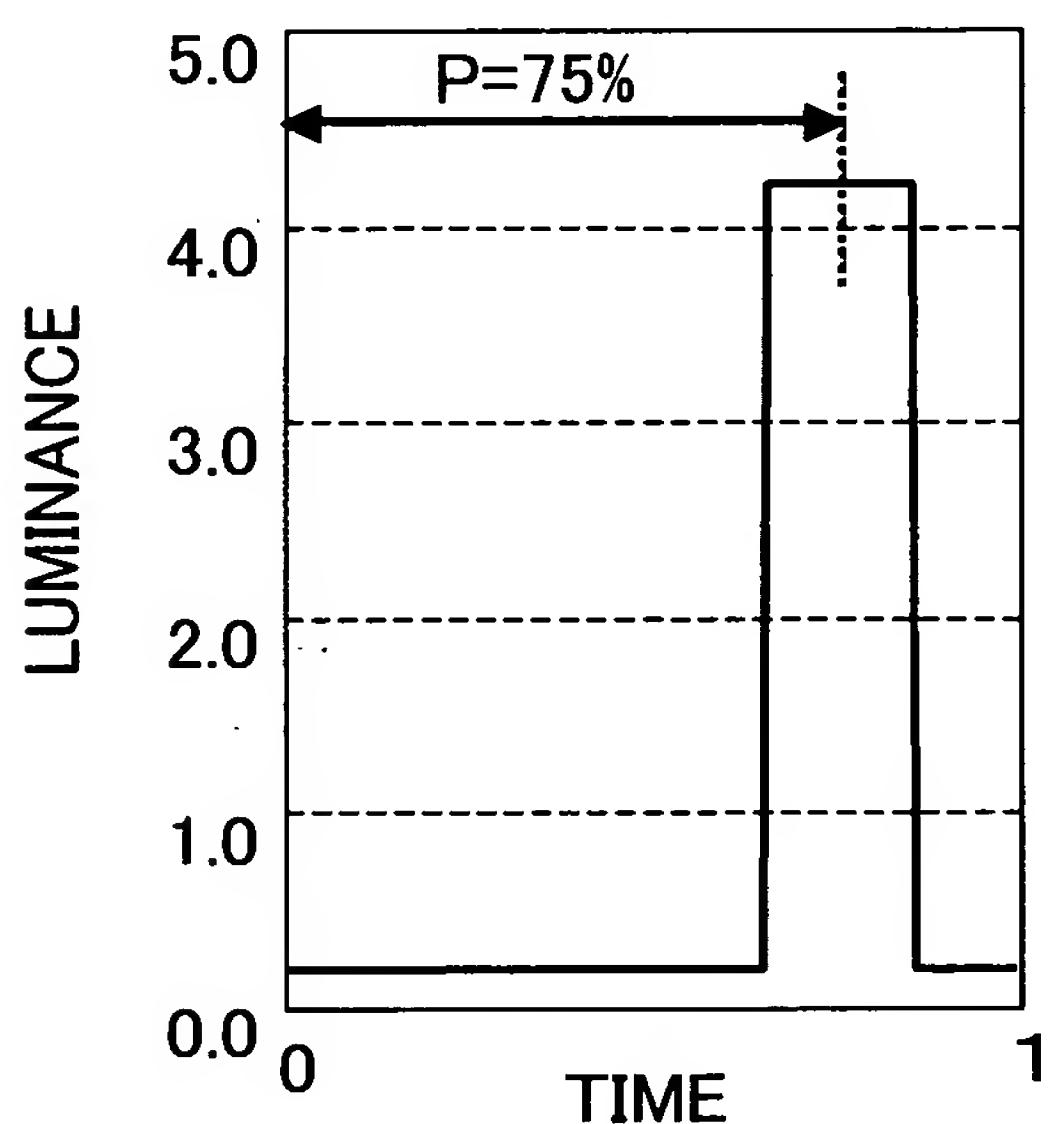


FIG.73(d)

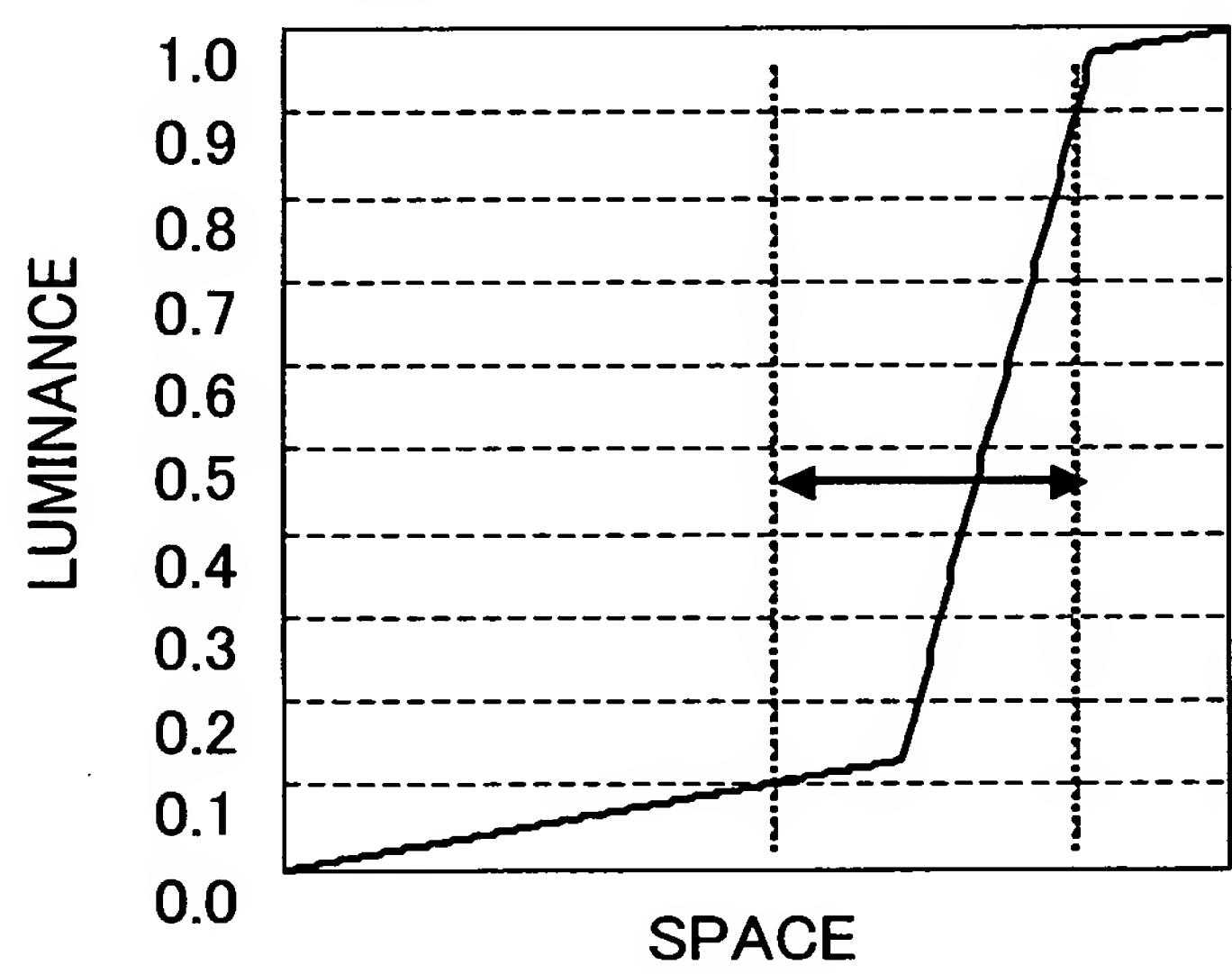


FIG.73(e)

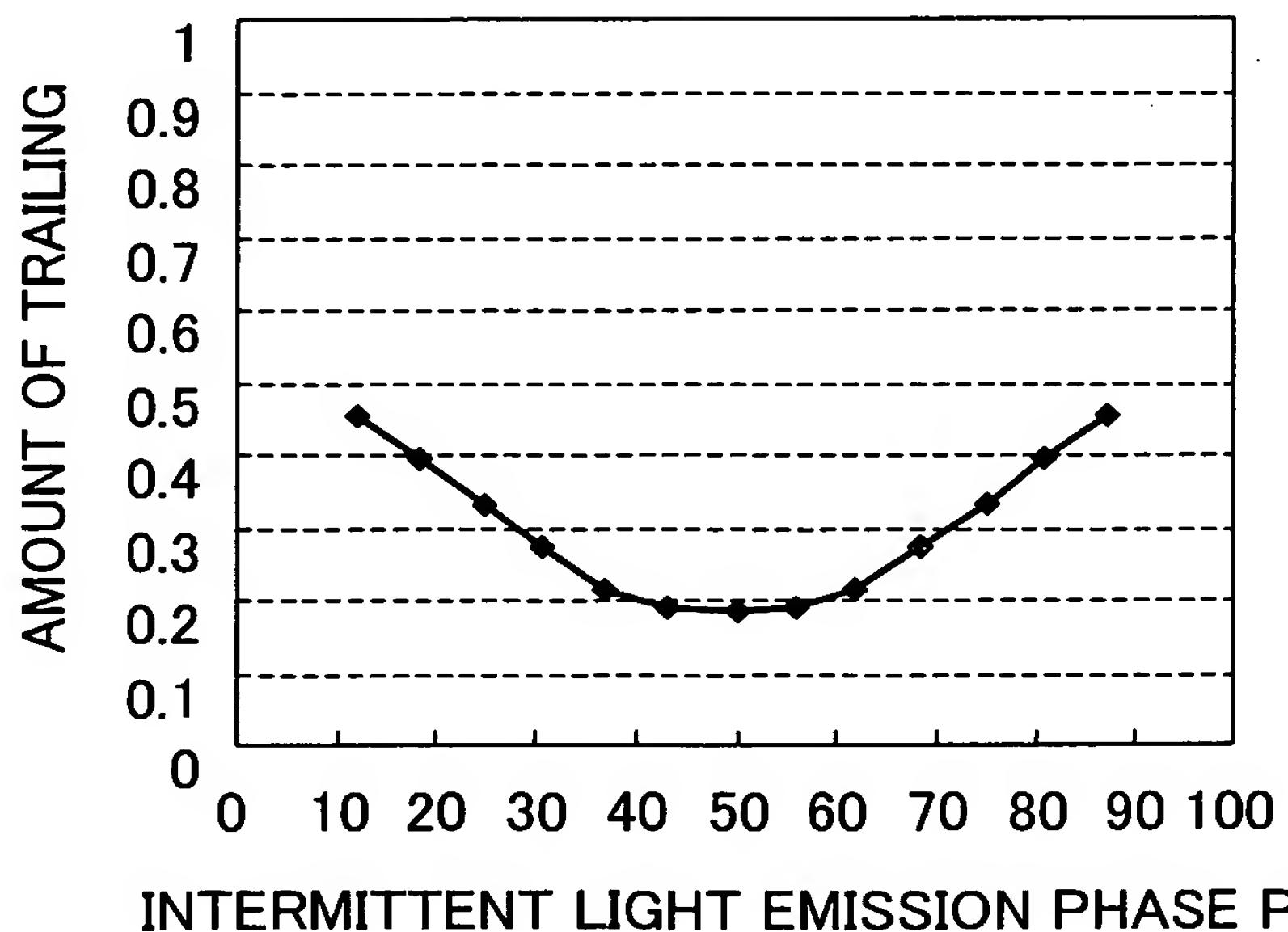
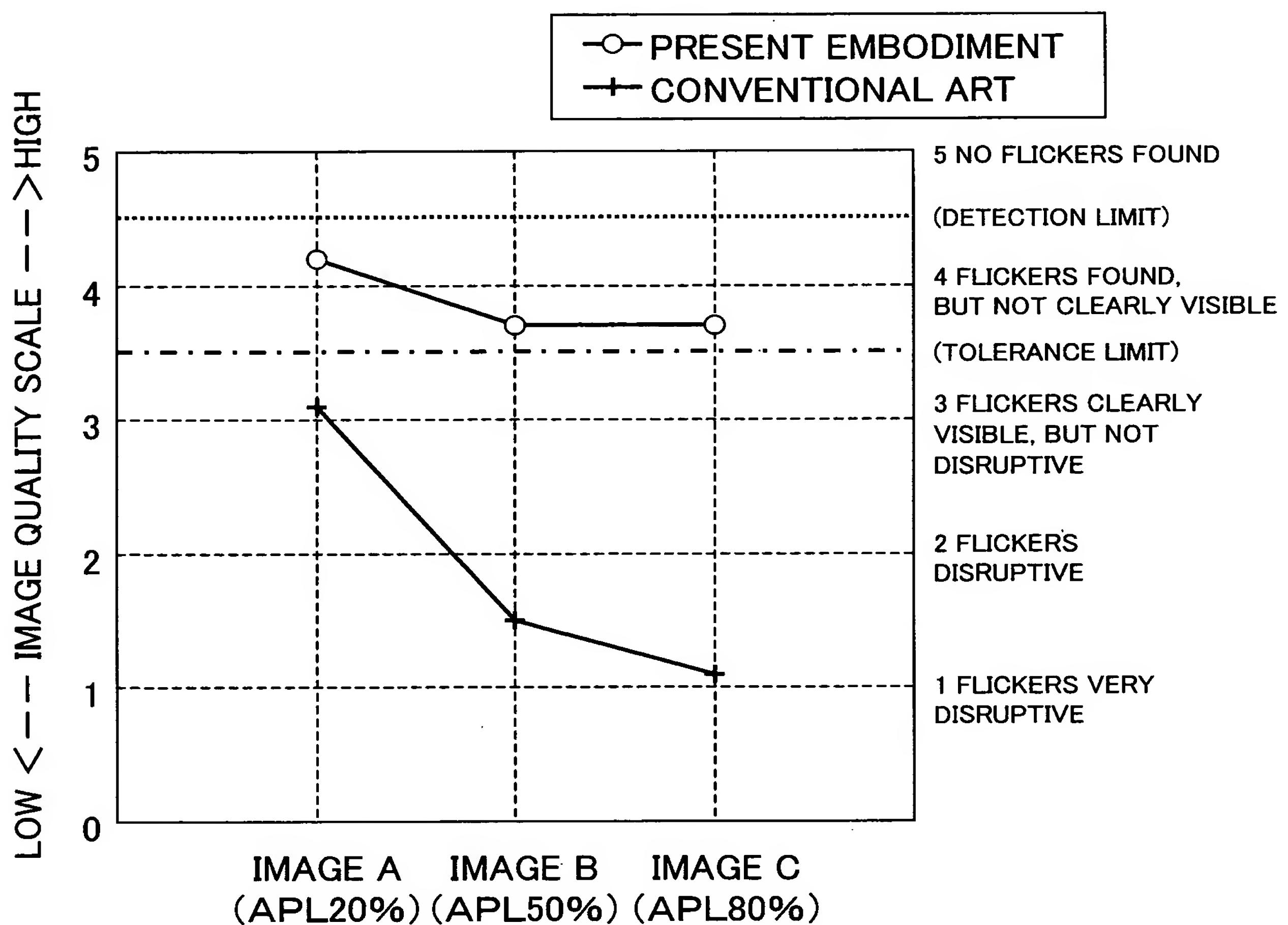
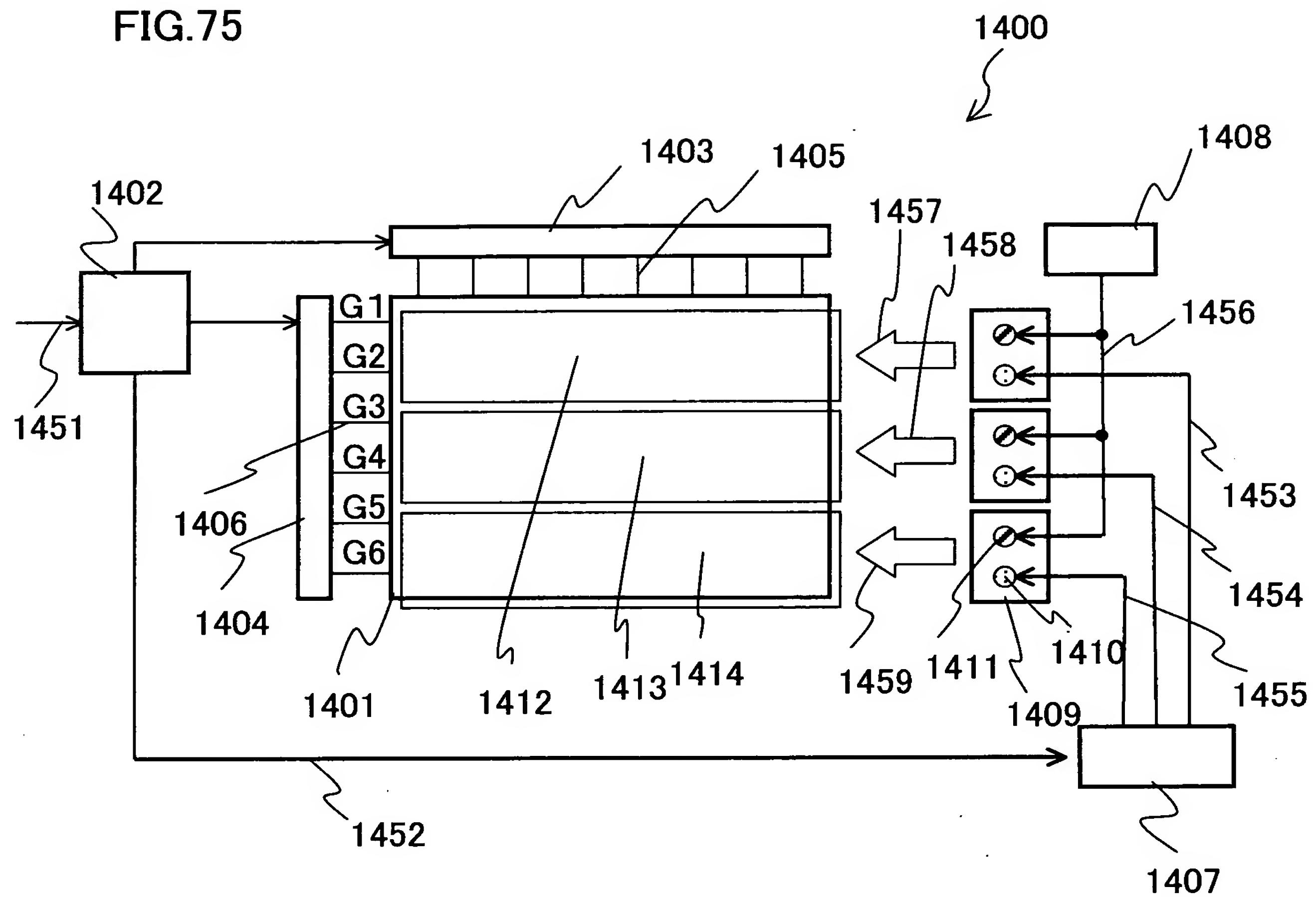


FIG.74



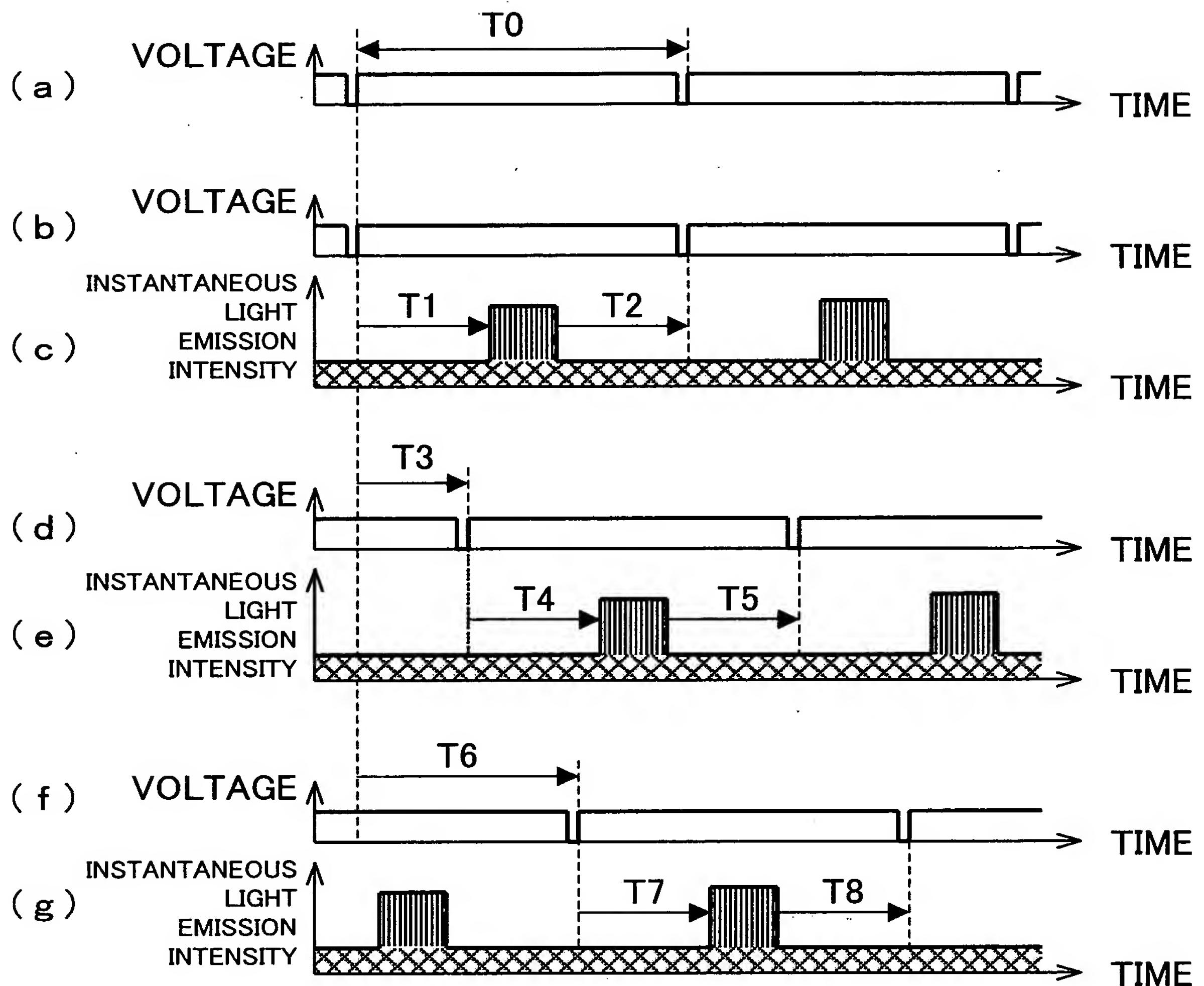
7 2 / 1 1 4

FIG.75



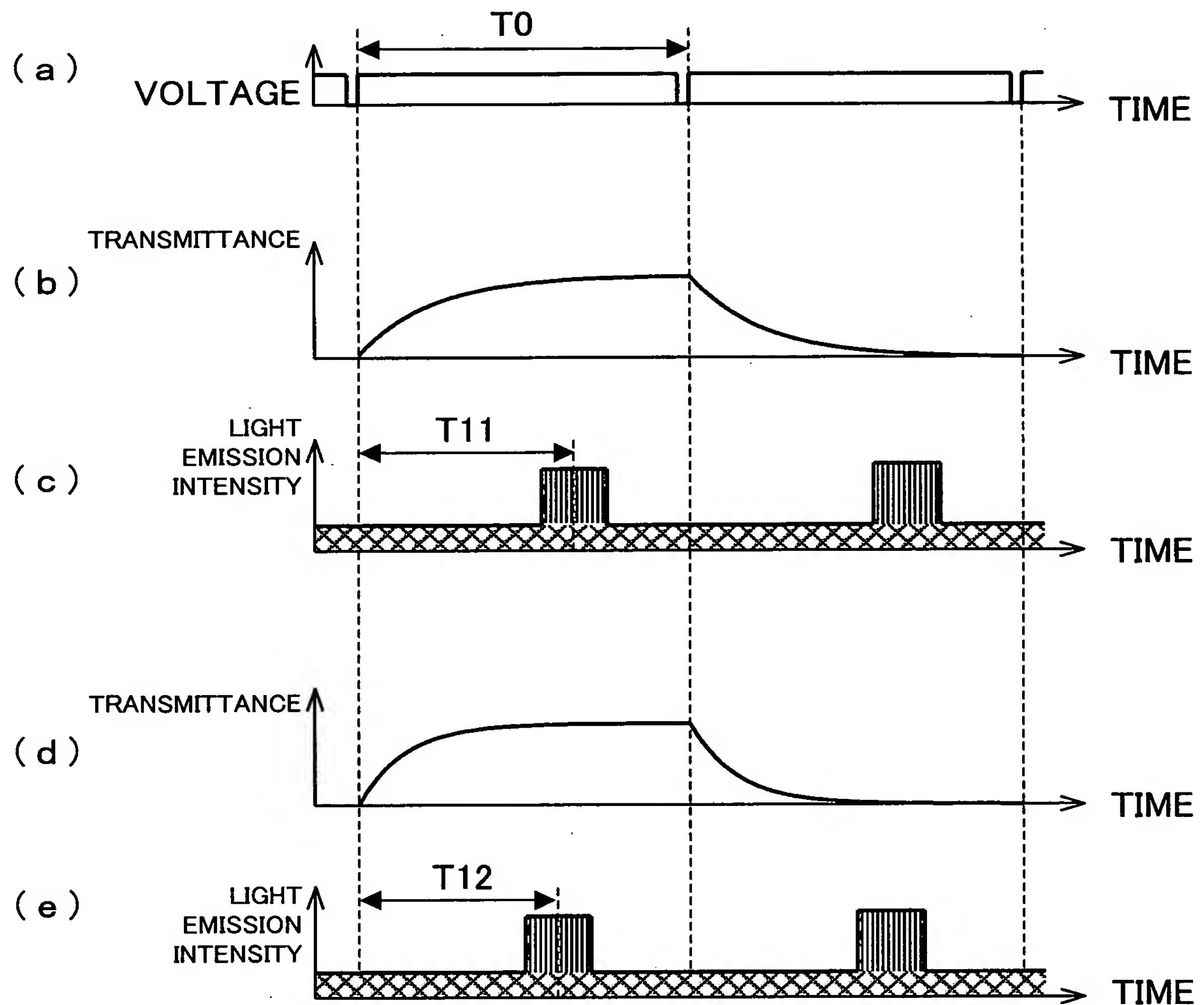
7 3 / 1 1 4

FIG.76



7 4 / 1 1 4

FIG.77



7 5 / 1 1 4

FIG.78(a)

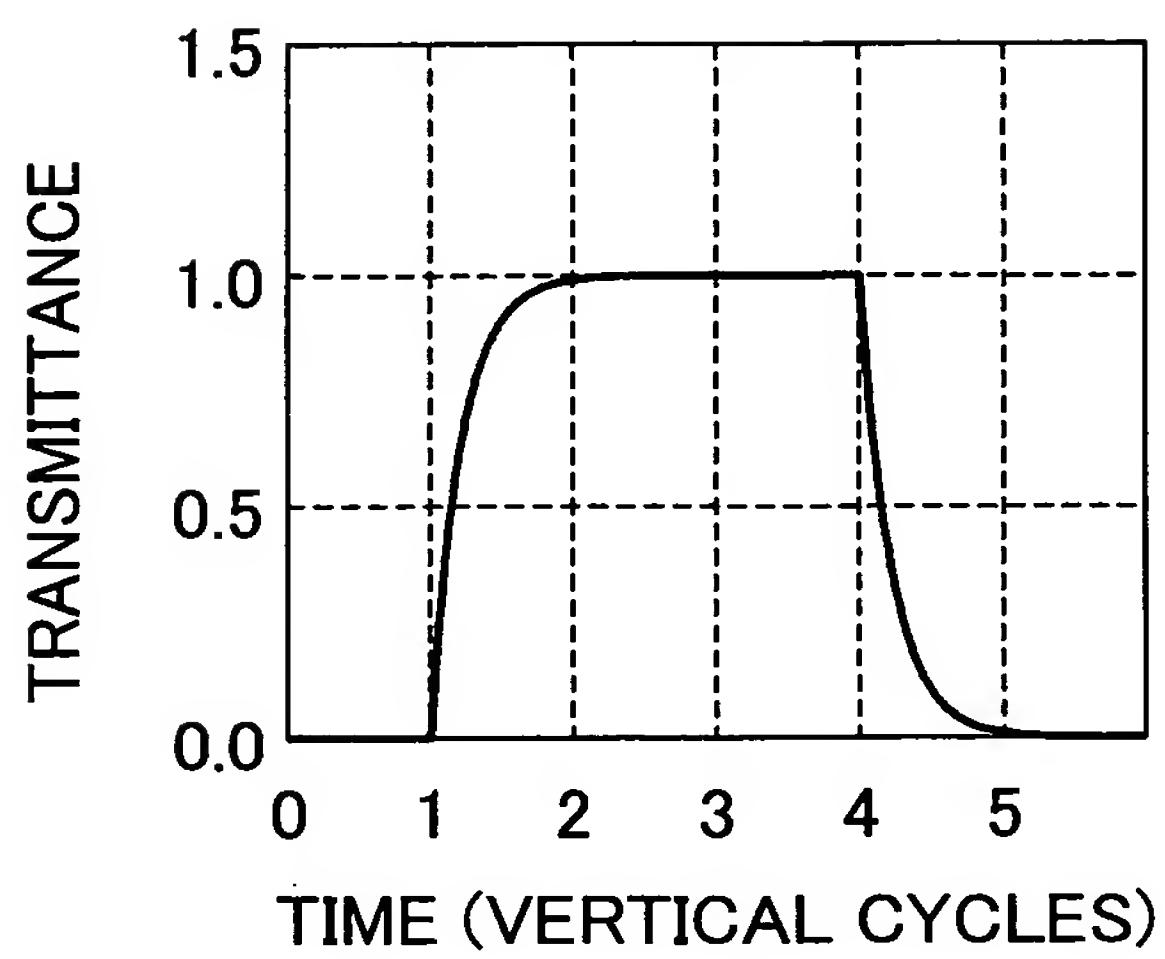


FIG.78(b)

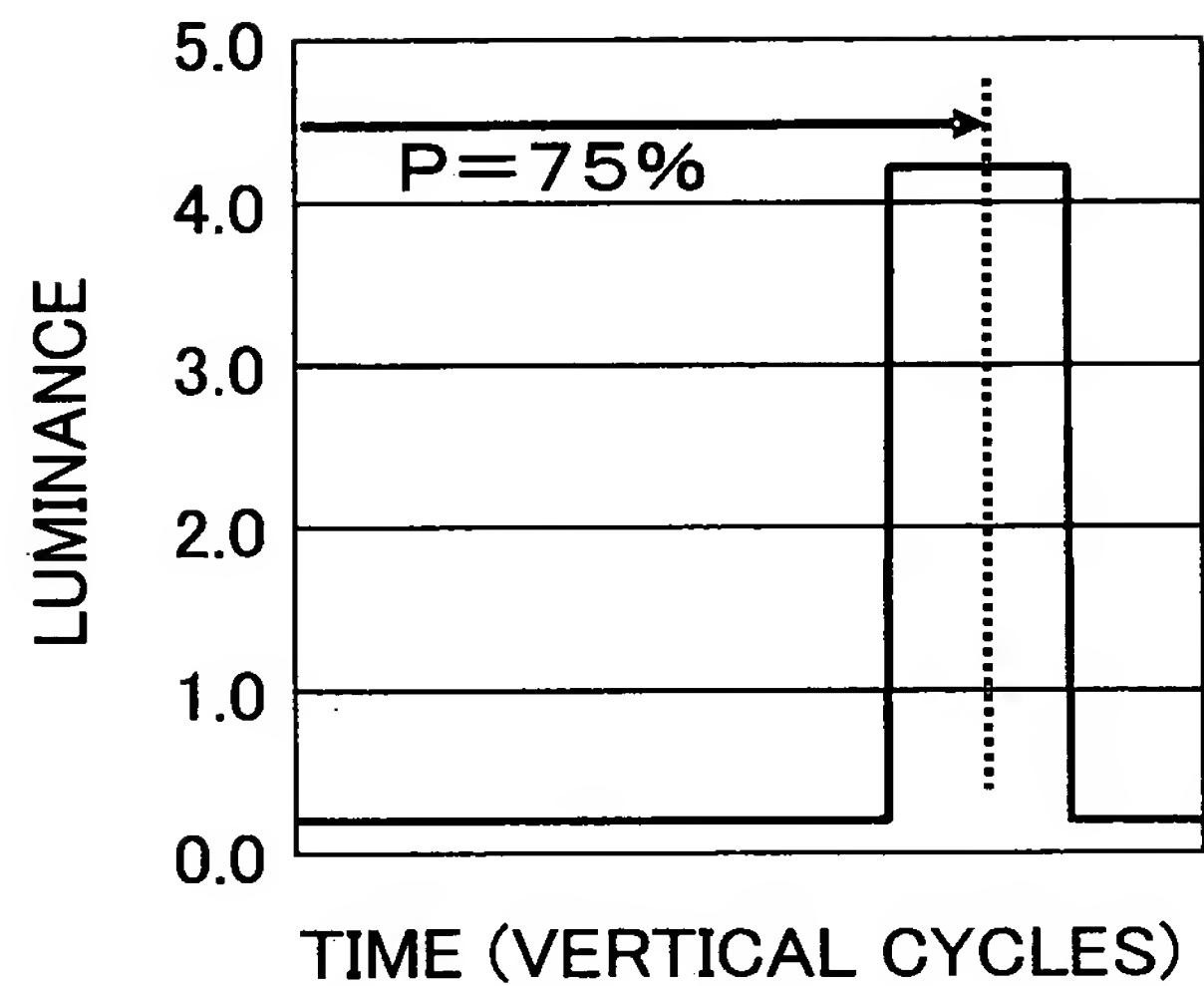


FIG.78(c)

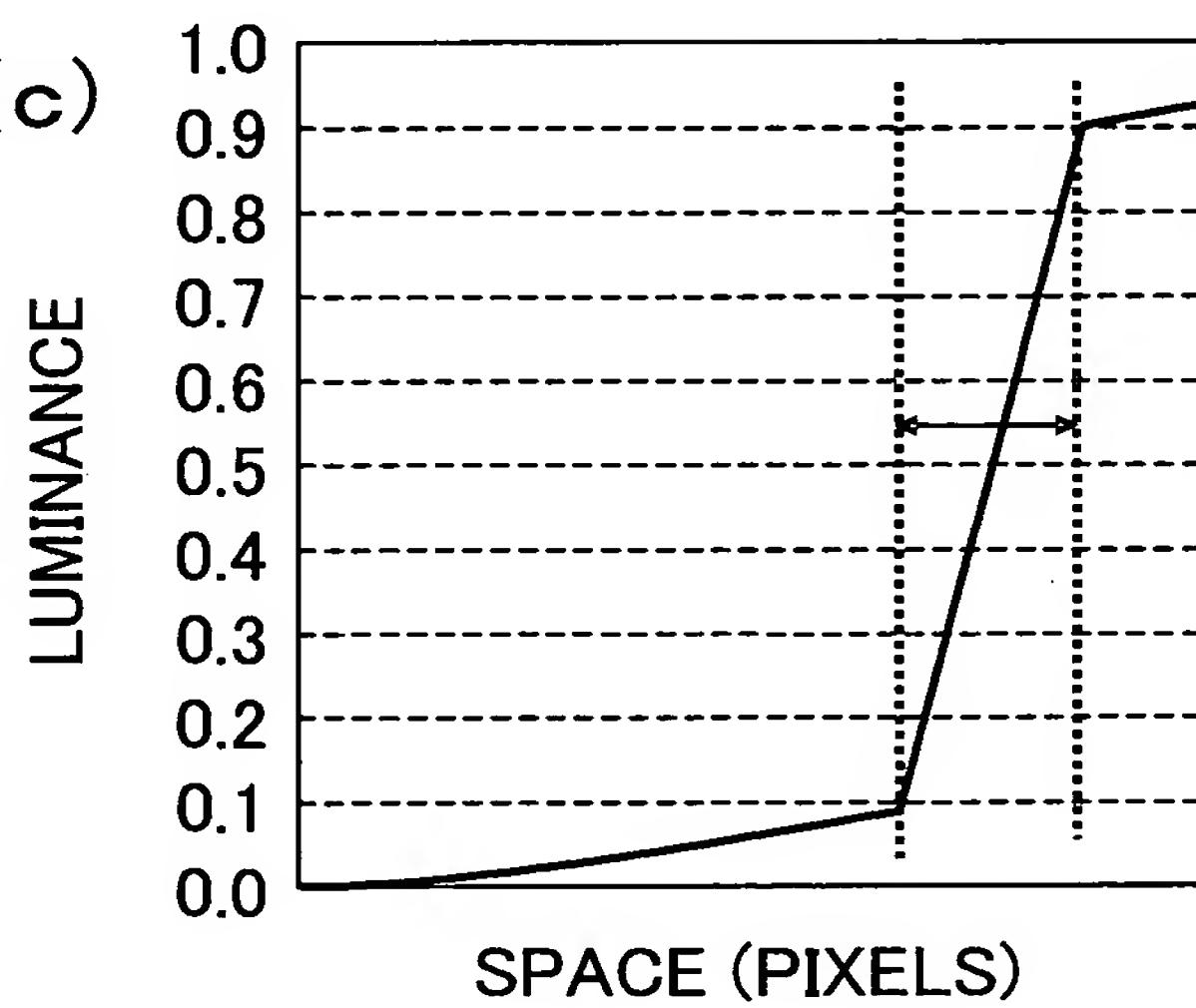
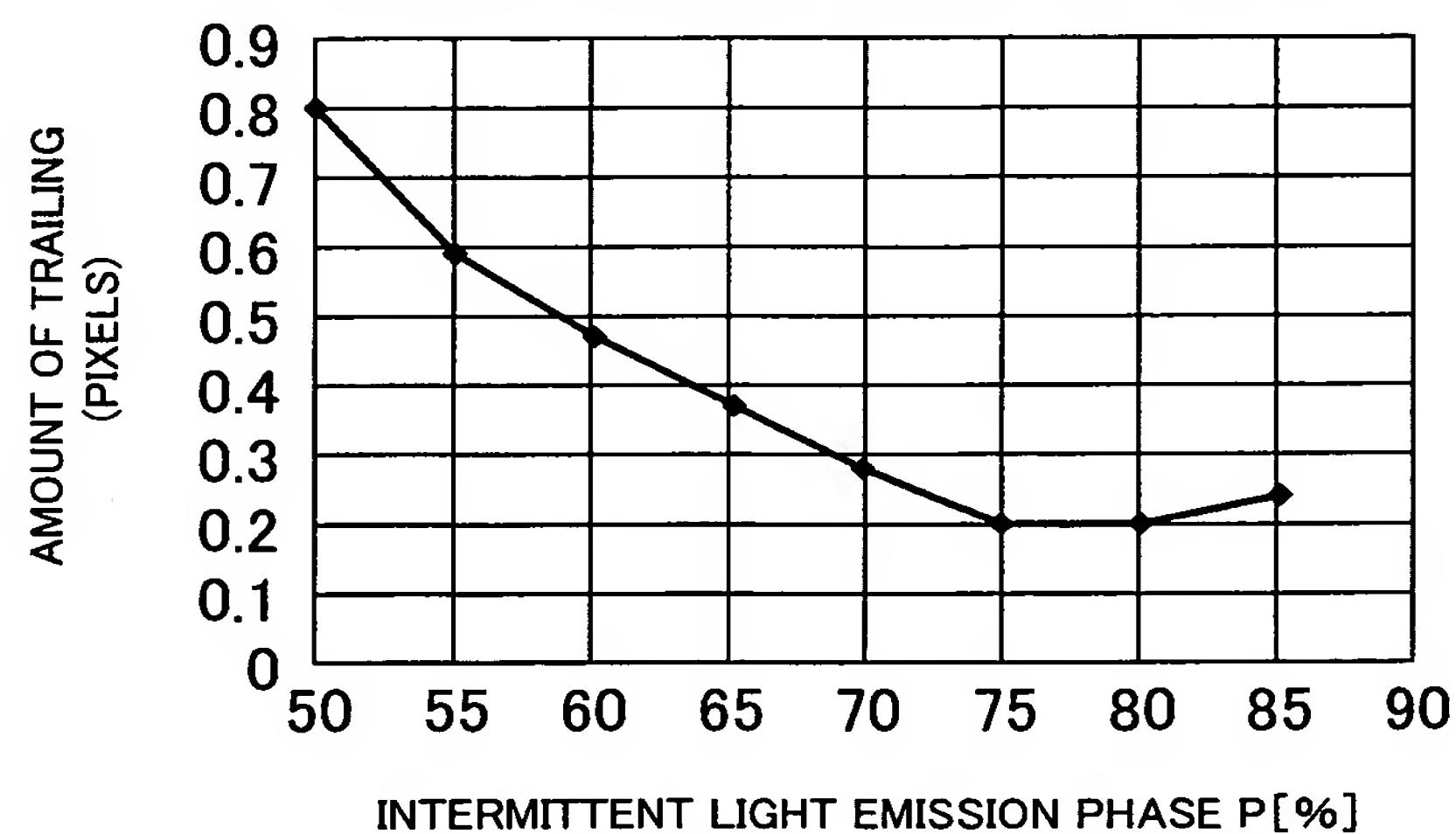


FIG.78(d)

RELATIONSHIP BETWEEN INTERMITTENT LIGHT EMISSION PHASE P AND AMOUNT OF TRAILING



7 6 / 1 1 4

FIG.79(a)

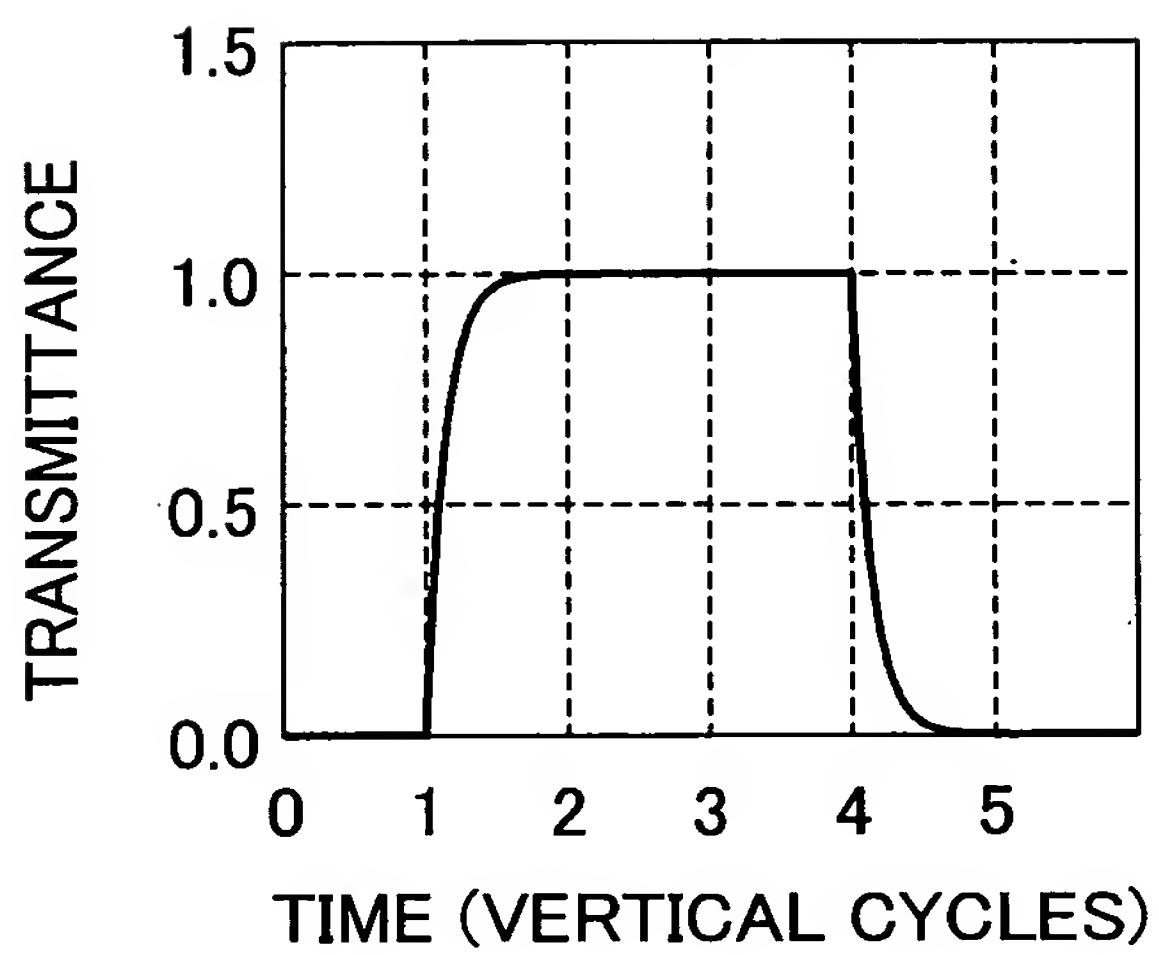


FIG.79(b)

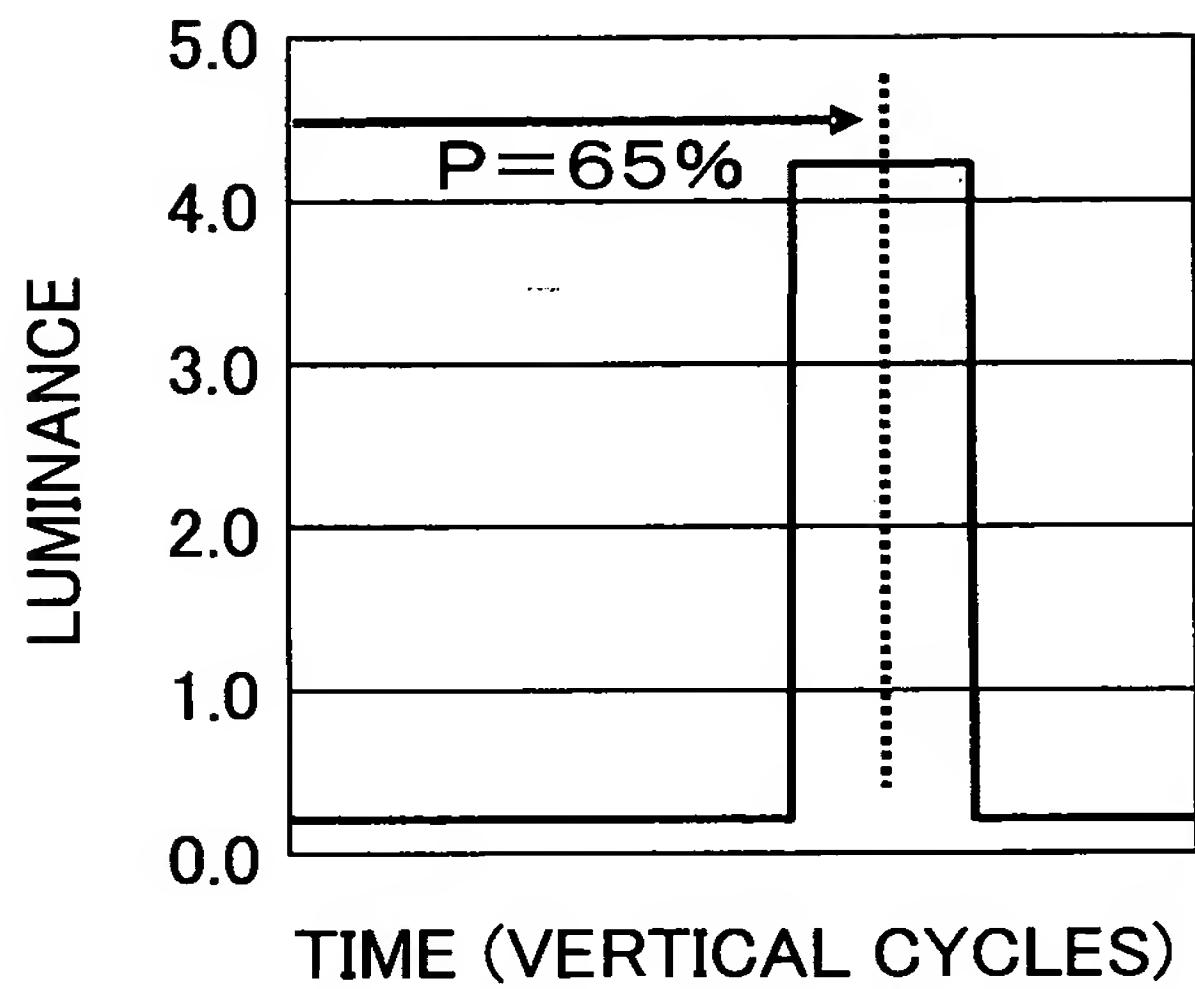


FIG.79(c)

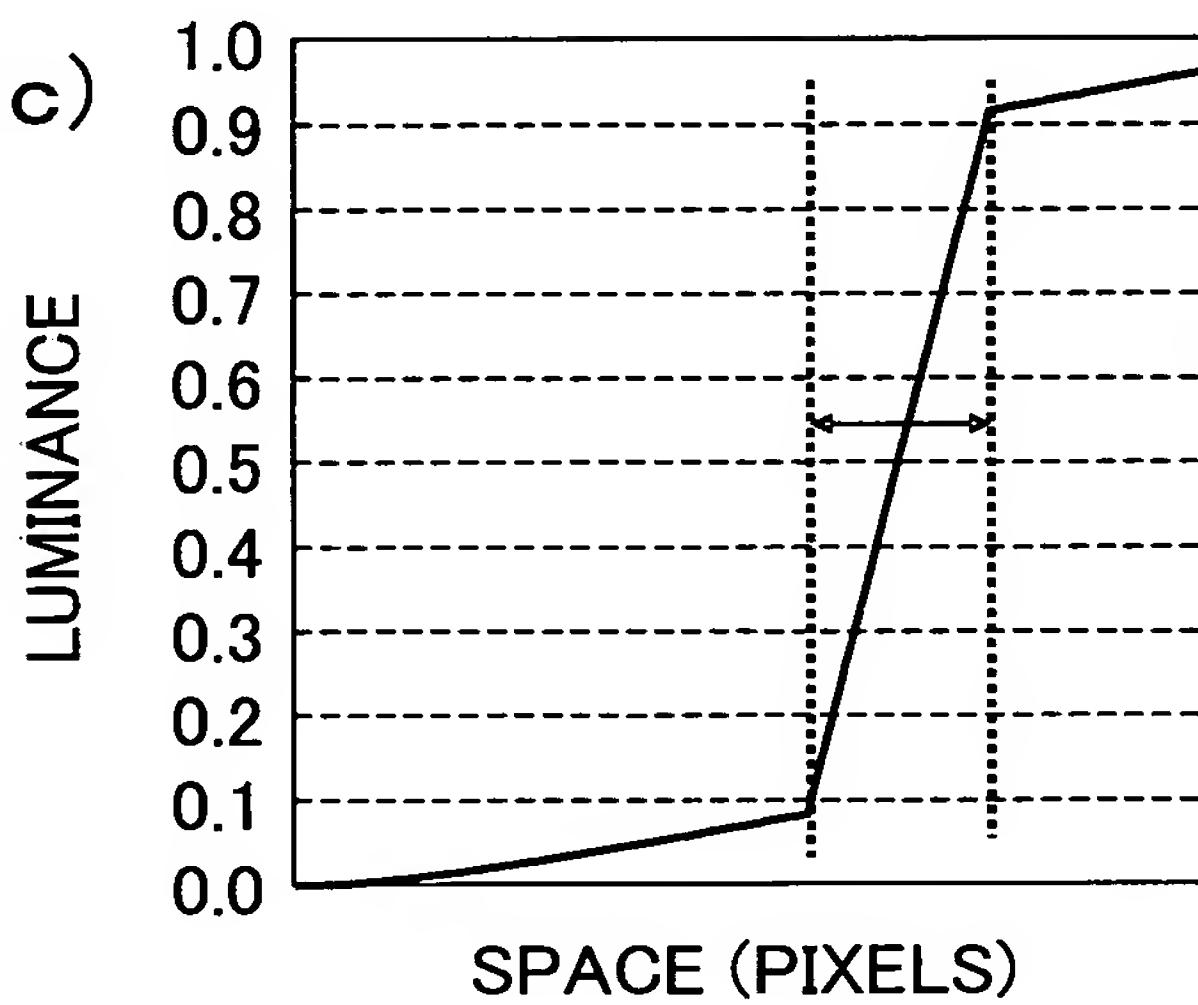
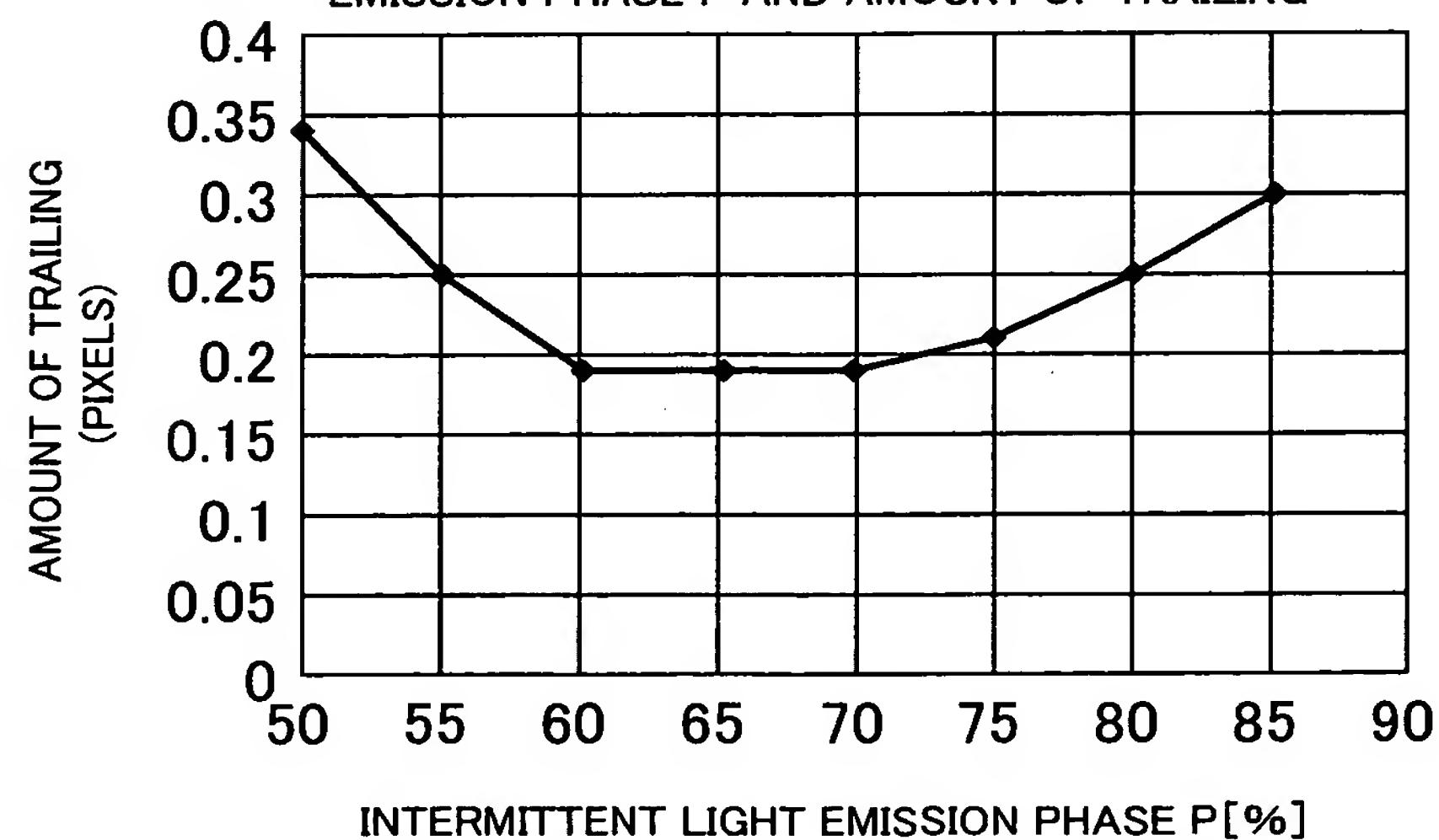


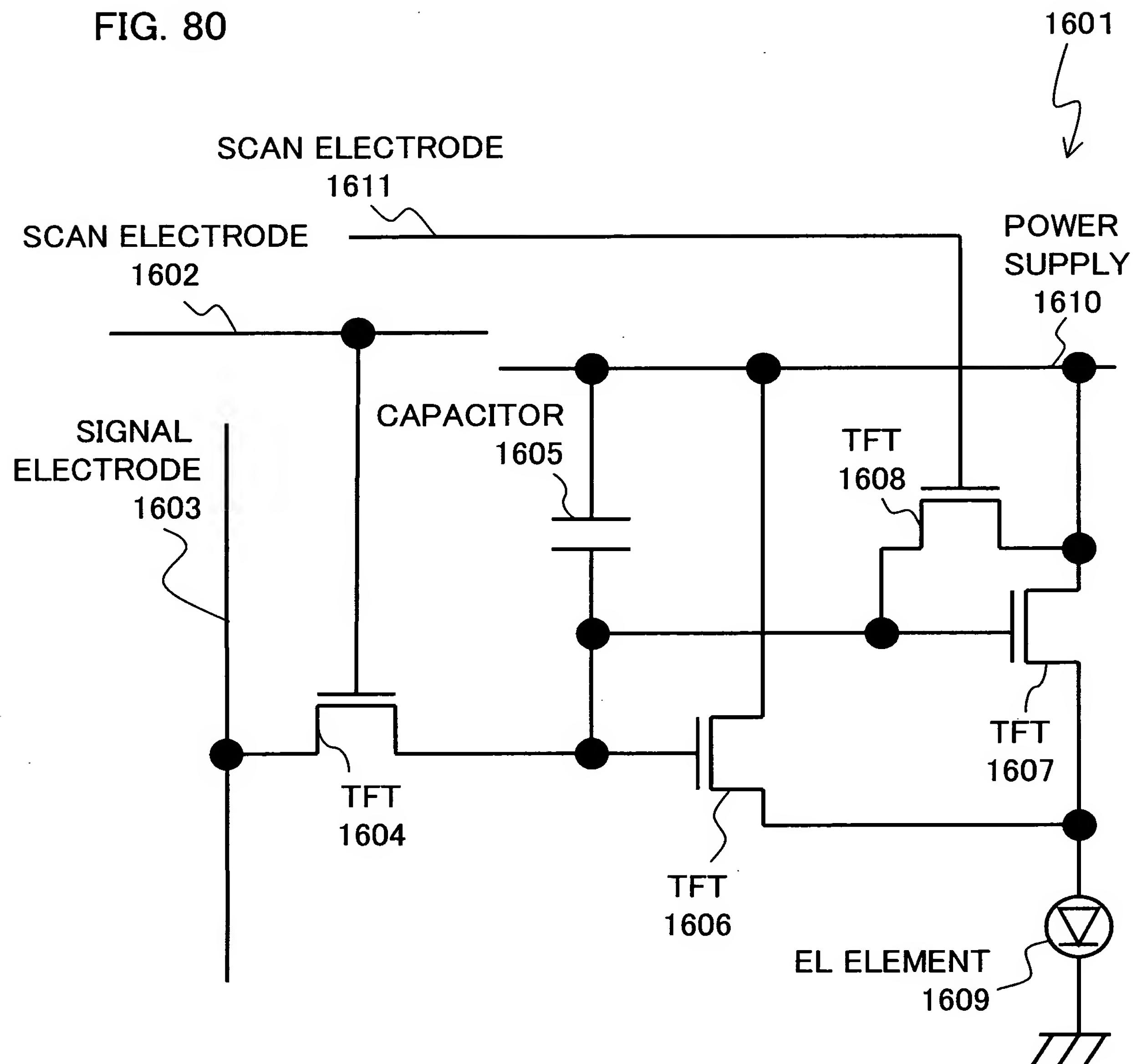
FIG.79(d)

RELATIONSHIP BETWEEN INTERMITTENT LIGHT EMISSION PHASE P AND AMOUNT OF TRAILING



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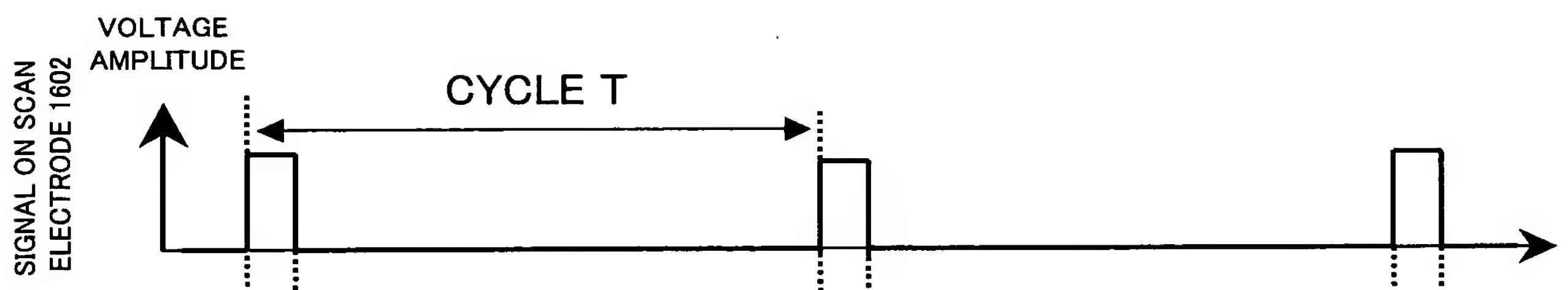
FIG. 80



7 8 / 1 1 4

FIG. 81

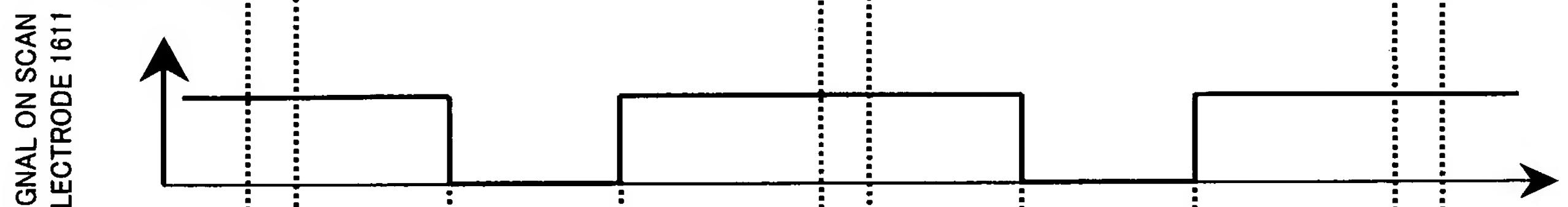
(a)



(b)

VOLTAGE AMPLITUDE

SIGNAL ON SCAN ELECTRODE 1611



(c)

CURRENT AMPLITUDE

DRAIN CURRENT OF TFT 1606

I₂

(d)

CURRENT AMPLITUDE

DRAIN CURRENT OF TFT 1607

I₄

(e)

CURRENT AMPLITUDE

CURRENT THROUGH EL ELEMENT 1609

I₇

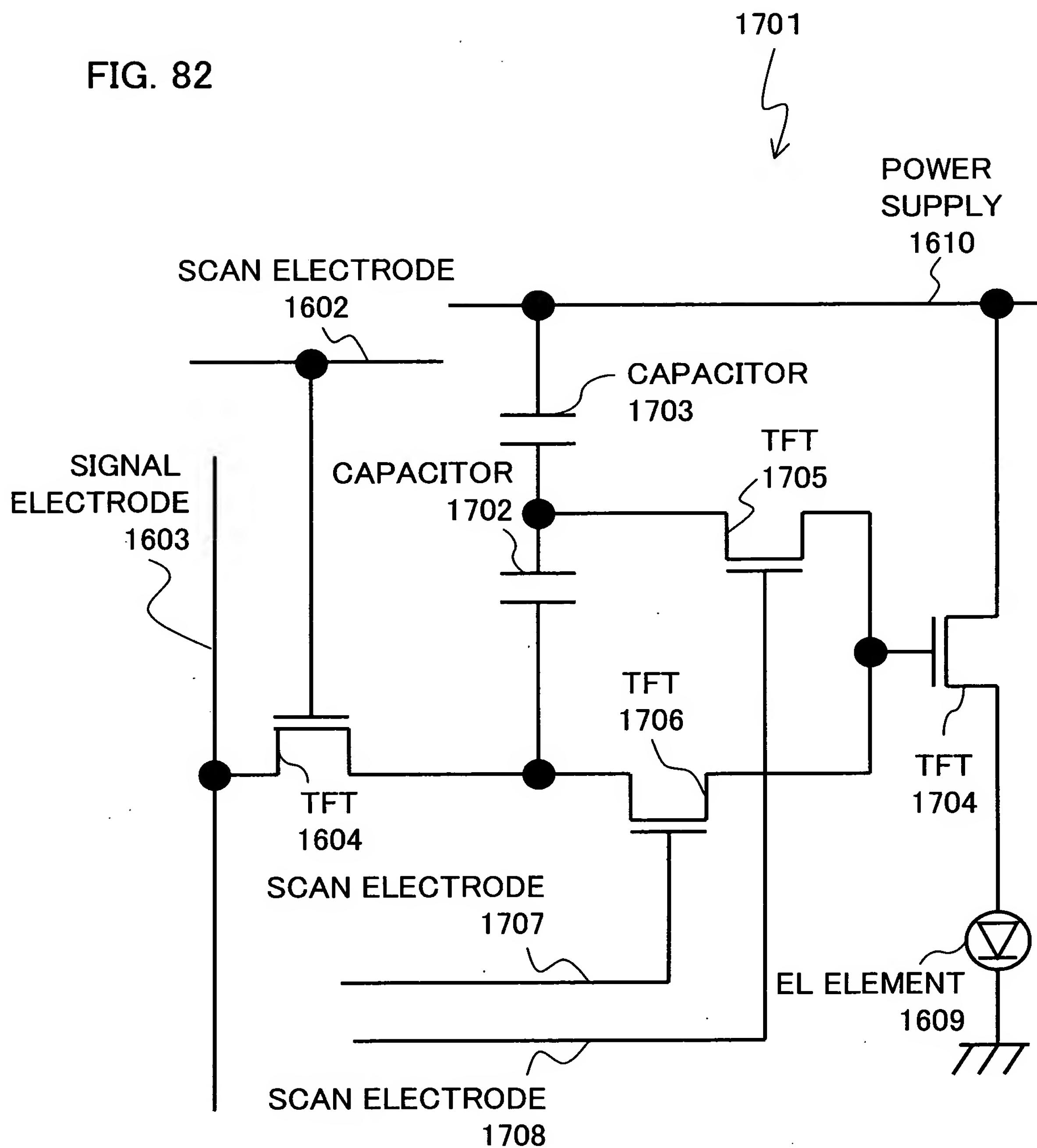
I₈

TIME

This figure contains five vertically stacked sub-diagrams (a) through (e), each showing a current signal over time. The signals are represented by solid black lines with arrows indicating their direction. Vertical dotted lines connect the signals in each row. Arrows labeled I₁, I₂, I₃, I₄, I₅, I₆, I₇, and I₈ point to specific segments of the current signals. The y-axis labels indicate the type of current and the corresponding TFT or element number. The x-axis is labeled 'TIME' at the bottom right.

7 9 / 1 1 4

FIG. 82



80/114

FIG. 83

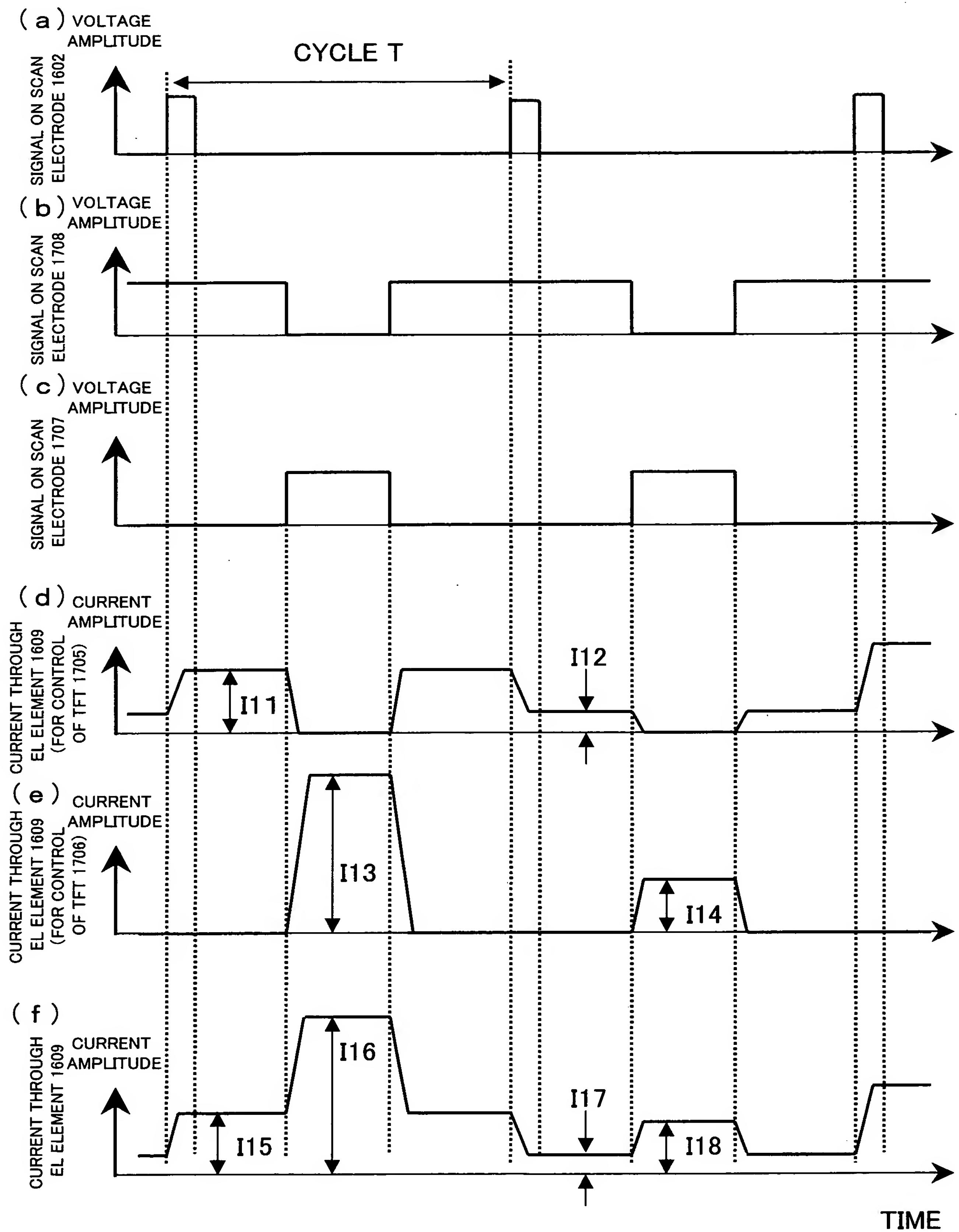


FIG. 84

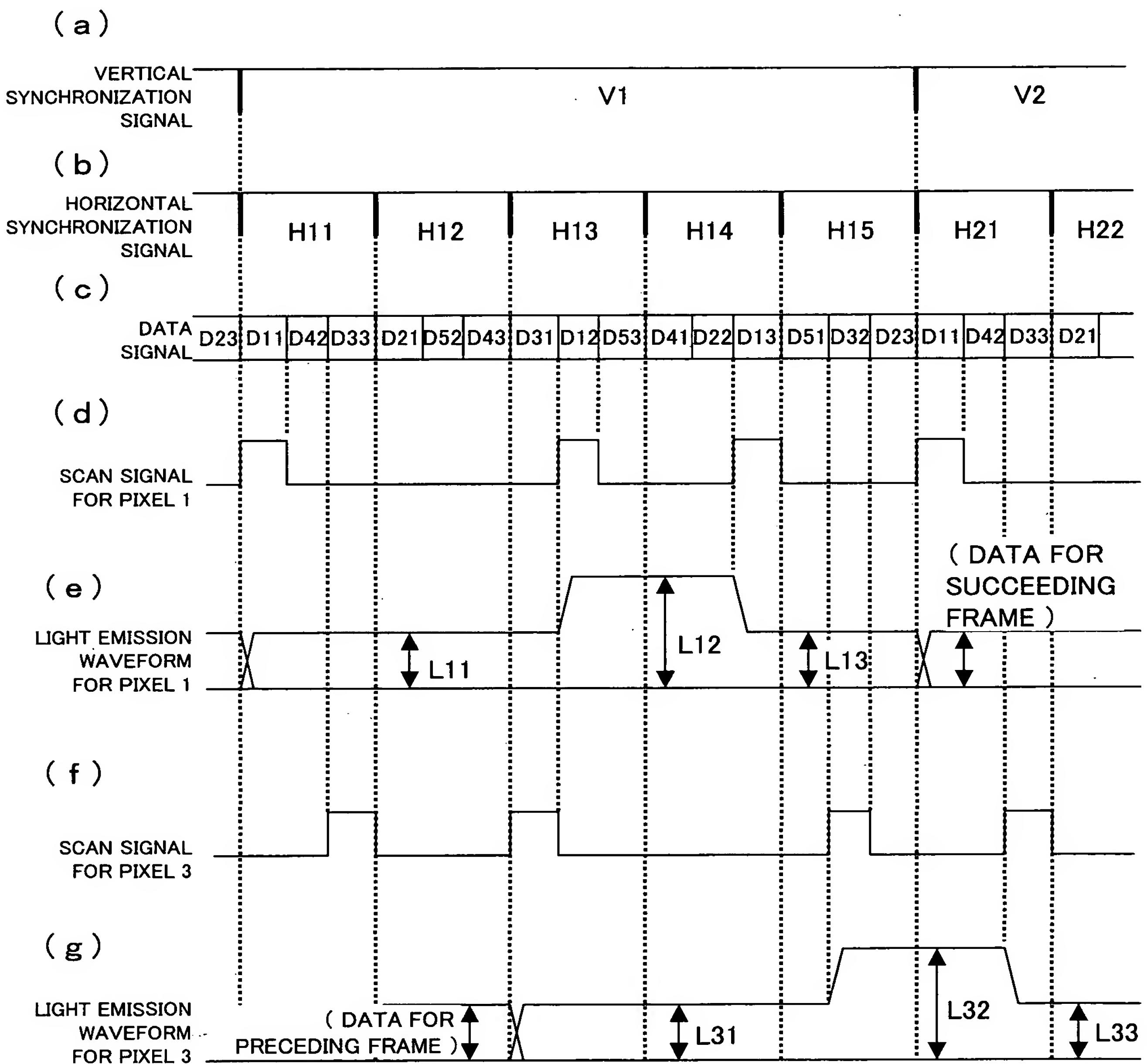


FIG. 85(a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

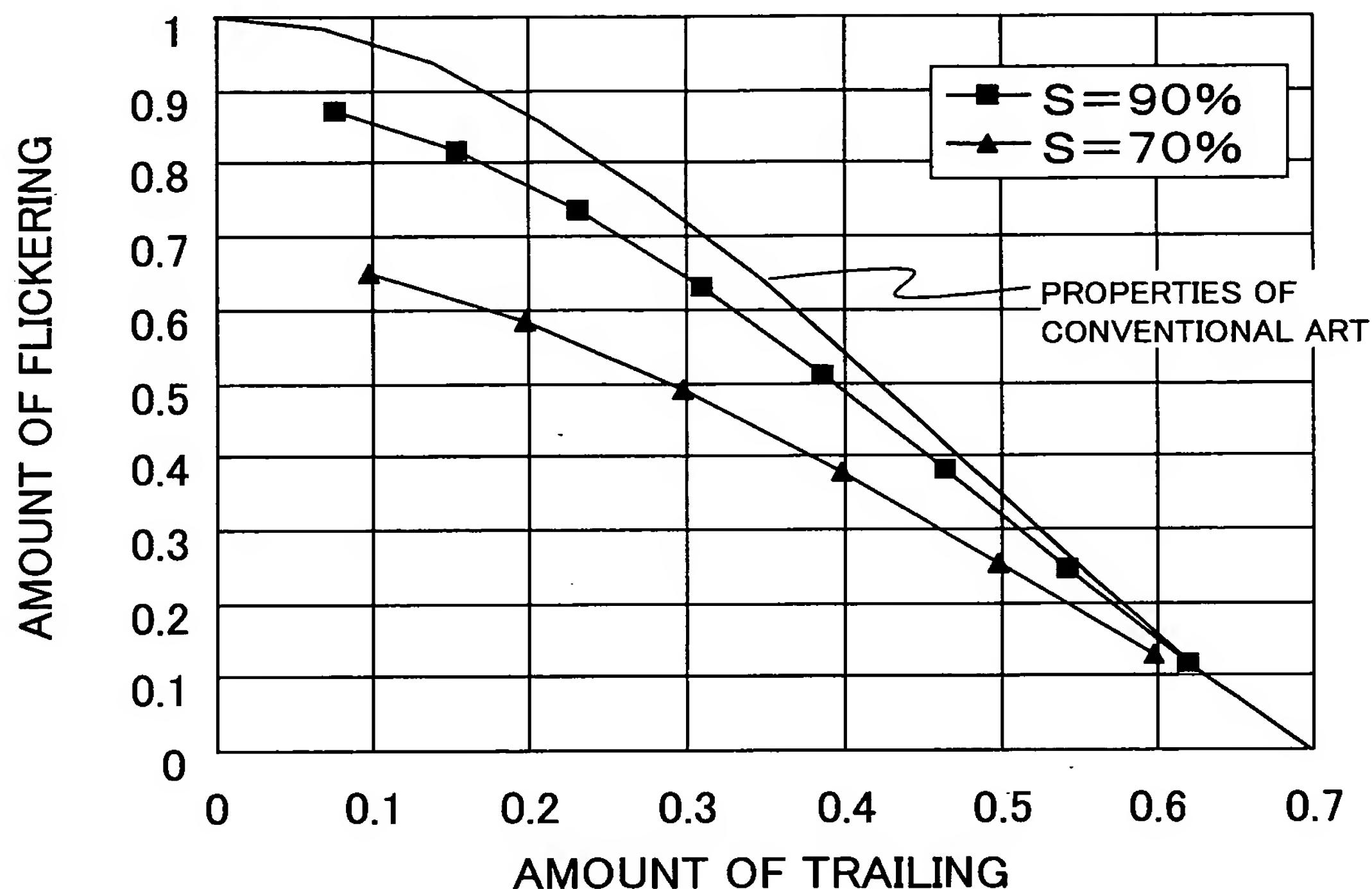


FIG. 85(b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.08	0.87
20	0.16	0.82
30	0.23	0.74
40	0.31	0.63
50	0.39	0.51
60	0.47	0.38
70	0.54	0.25
80	0.62	0.12

DATA WHERE S FIXED AT 90%

FIG. 85(c)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.10	0.65
20	0.20	0.58
30	0.30	0.49
40	0.40	0.38
50	0.50	0.25
60	0.60	0.13

DATA WHERE S FIXED AT 70%

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FIG. 86(a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

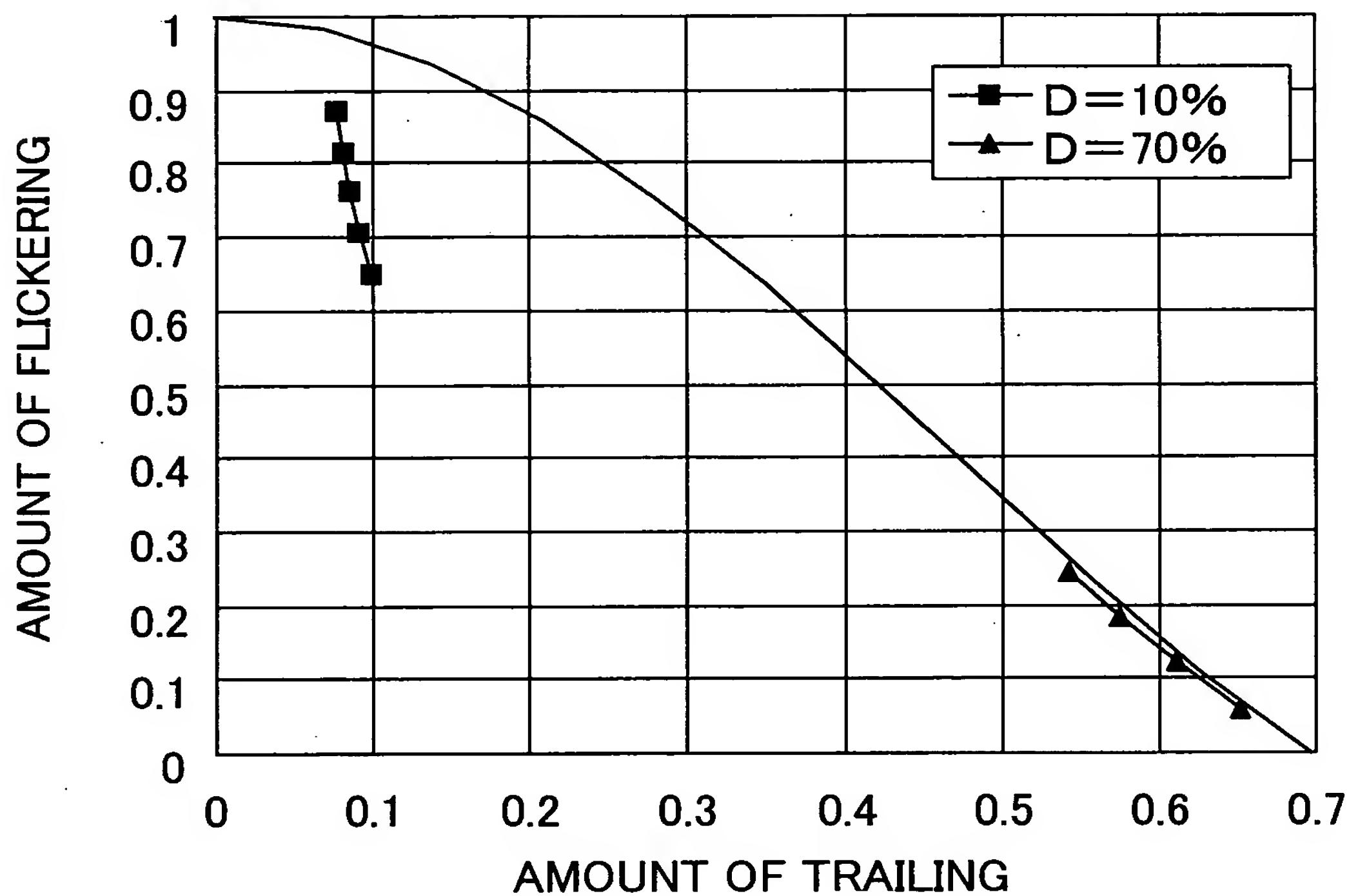


FIG. 86(b)

INTENSITY RATIO S OF FIRST LIGHT	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
90	0.08	0.87
85	0.08	0.82
80	0.09	0.76
75	0.09	0.71
70	0.10	0.65

D FIXED AT 10%

FIG. 86(c)

INTENSITY RATIO S OF FIRST LIGHT	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
90	0.54	0.25
85	0.58	0.18
80	0.61	0.12
75	0.65	0.06

D FIXED AT 70%

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FIG. 87(a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

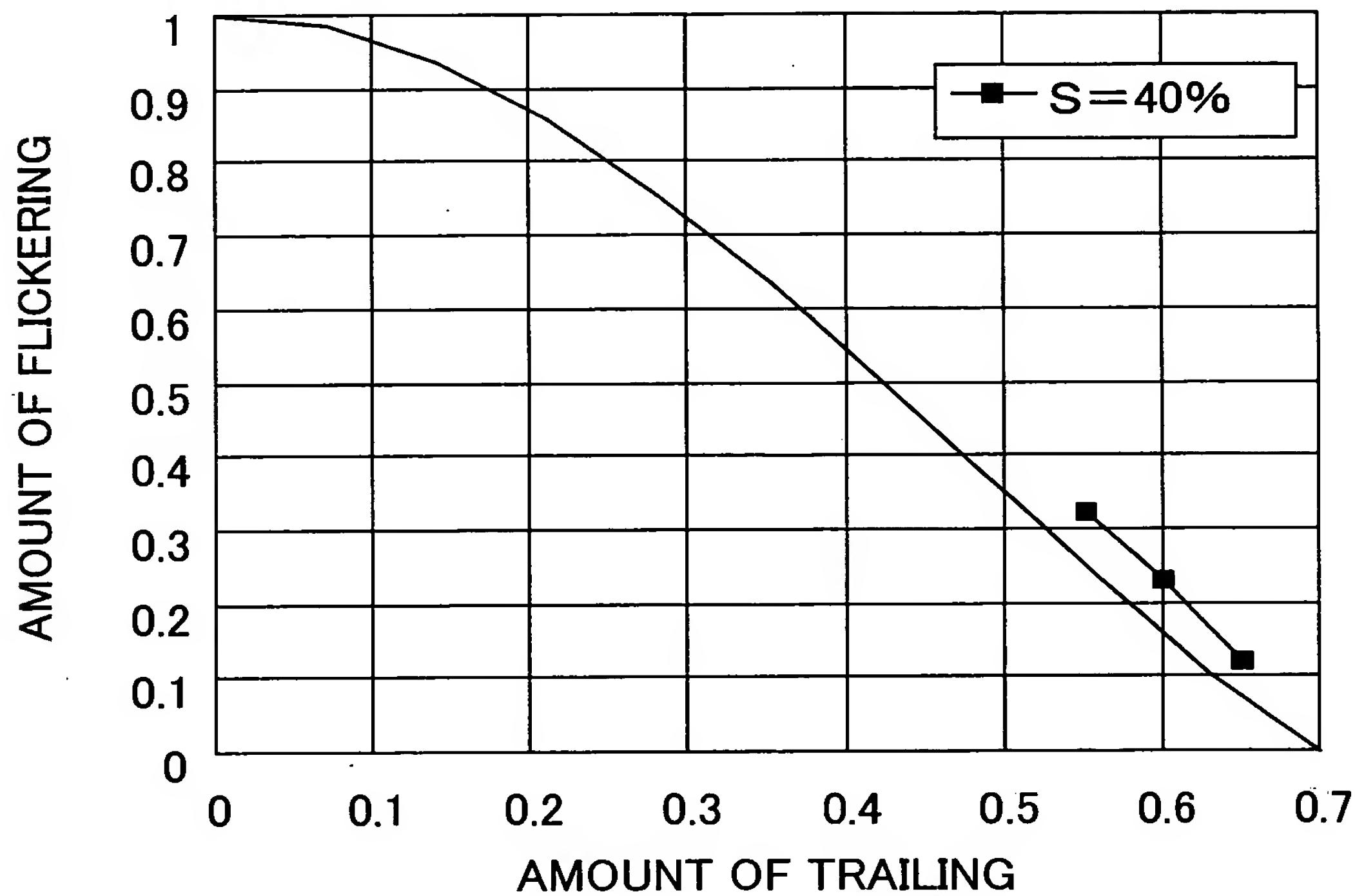


FIG. 87 (b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.55	0.323
20	0.6	0.2333
30	0.65	0.1228

S FIXED AT 40%

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FIG. 88(a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

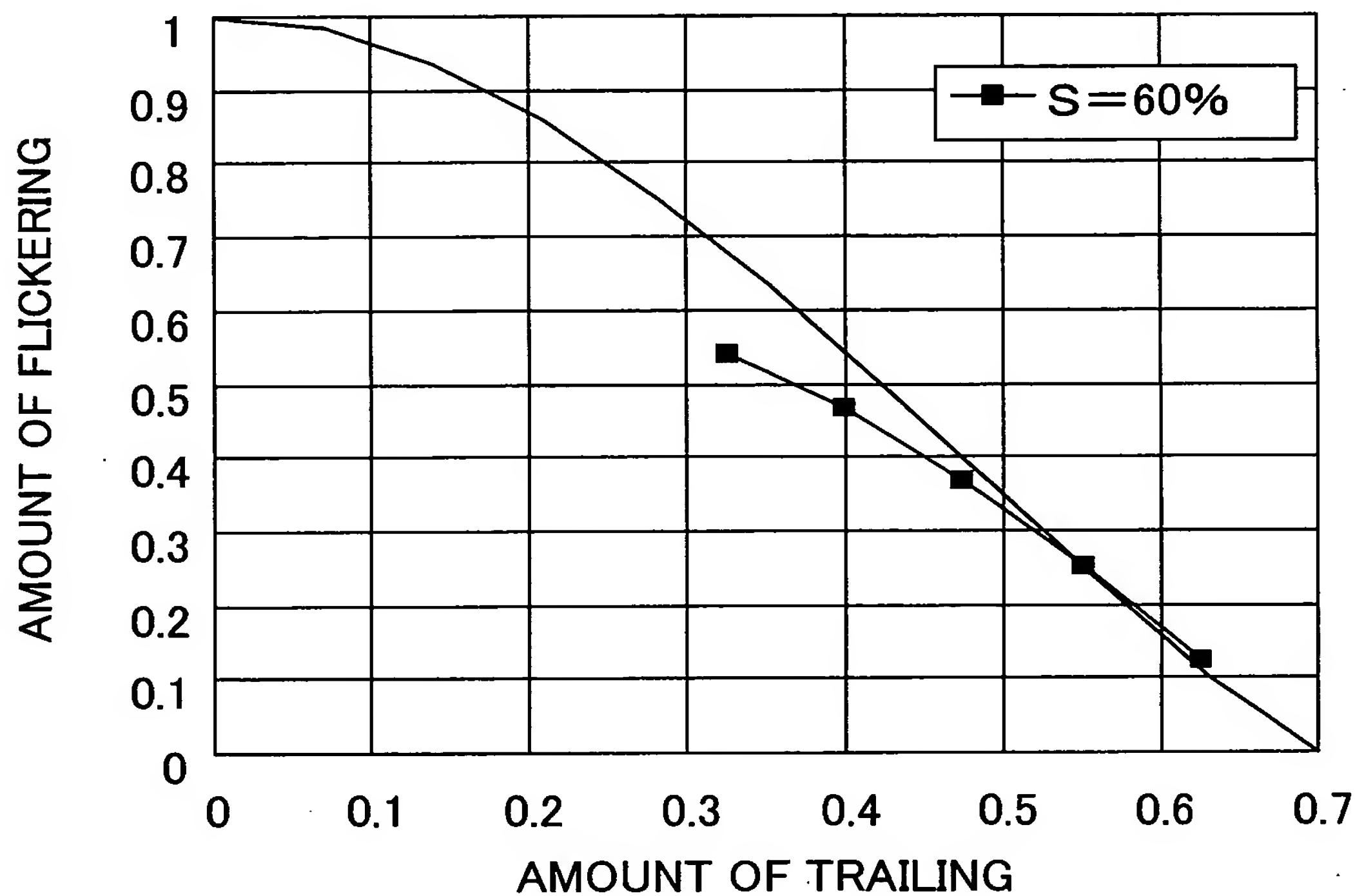


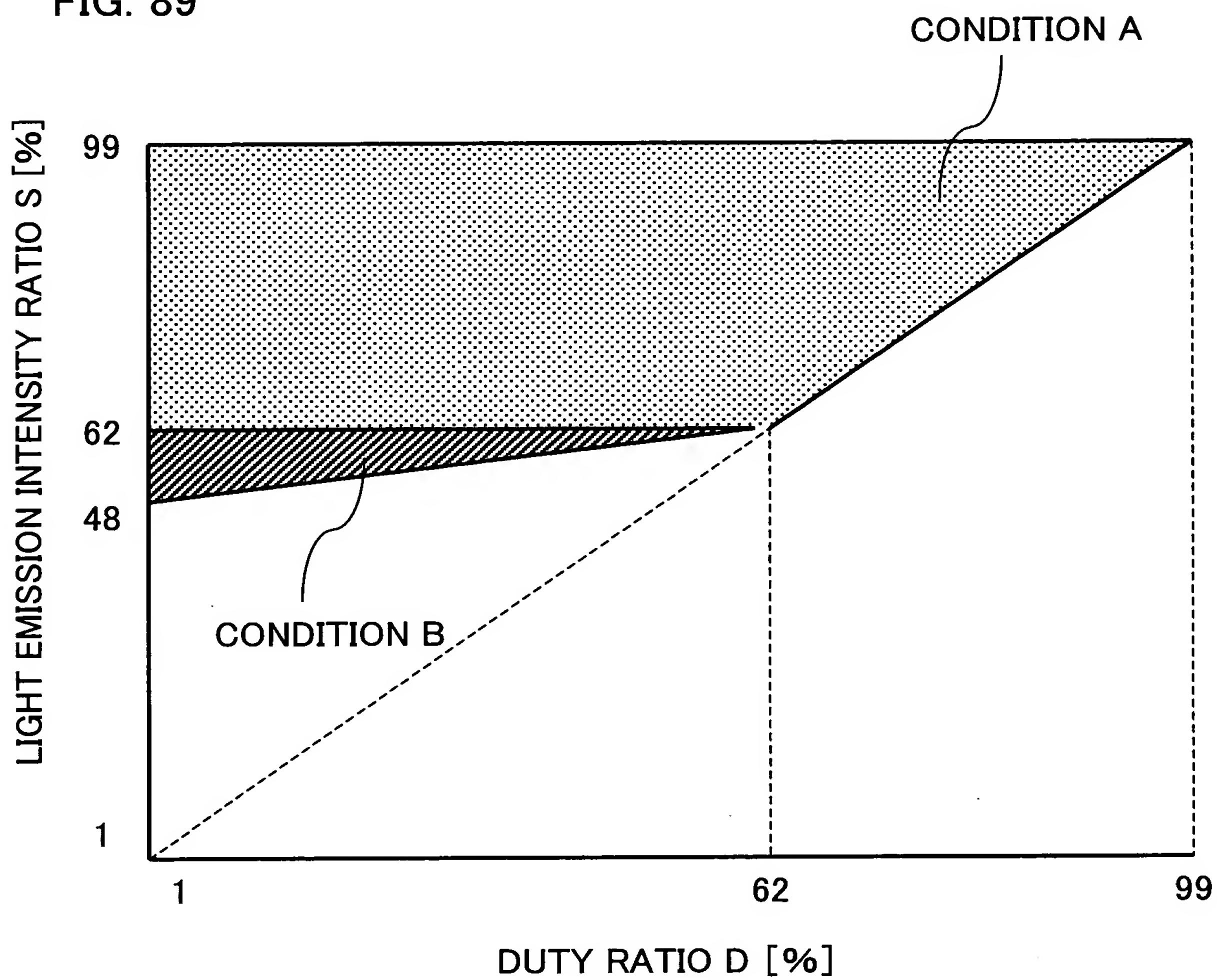
FIG. 88(b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.325	0.5411
20	0.400	0.4671
30	0.475	0.3681
40	0.550	0.2524
50	0.625	0.1273

S FIXED AT 60%

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FIG. 89



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FIG. 90(a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

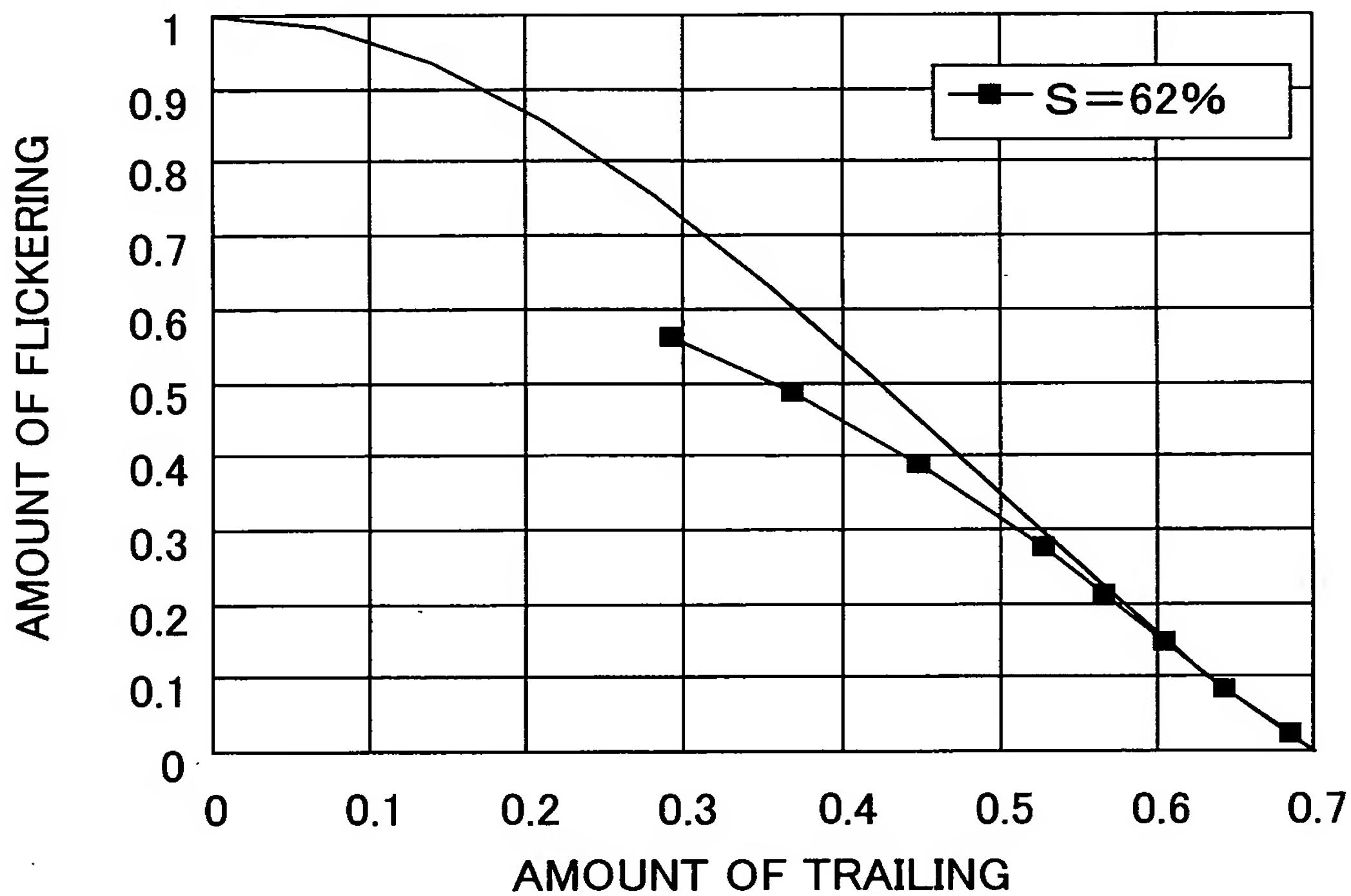


FIG. 90(b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.29	0.56
20	0.37	0.49
30	0.45	0.39
40	0.53	0.28
45	0.57	0.22
50	0.60	0.15
55	0.64	0.09
60	0.68	0.03

S FIXED AT 62%

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FIG. 91(a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

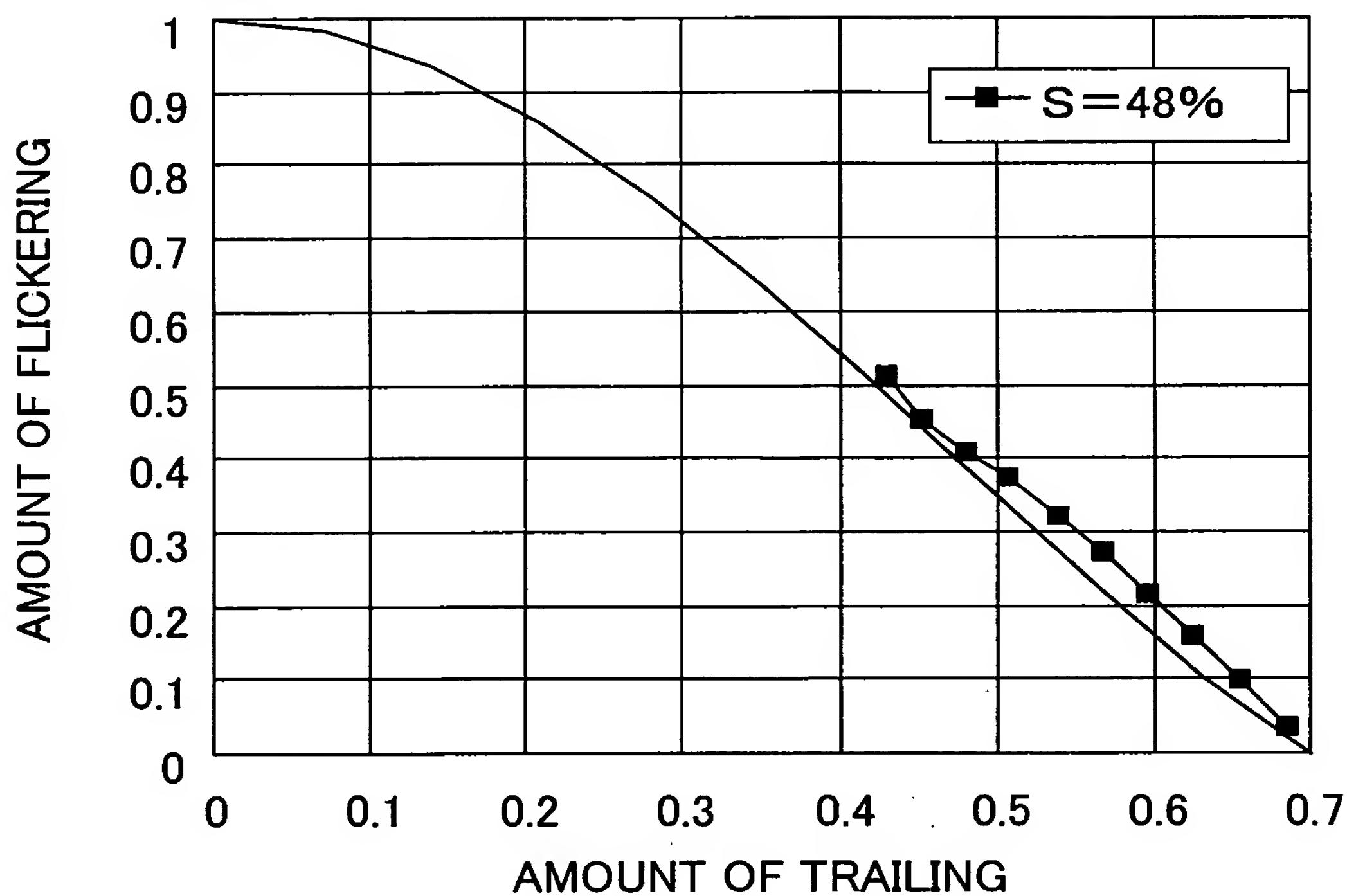


FIG. 91(b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
1	0.43	0.51
5	0.45	0.45
10	0.48	0.41
15	0.51	0.38
20	0.54	0.33
25	0.57	0.28
30	0.60	0.22
35	0.62	0.16
40	0.65	0.10
45	0.68	0.04

S FIXED AT 48%

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FIG. 92(a)

UPPER LIMITS OF DUTY RATIO

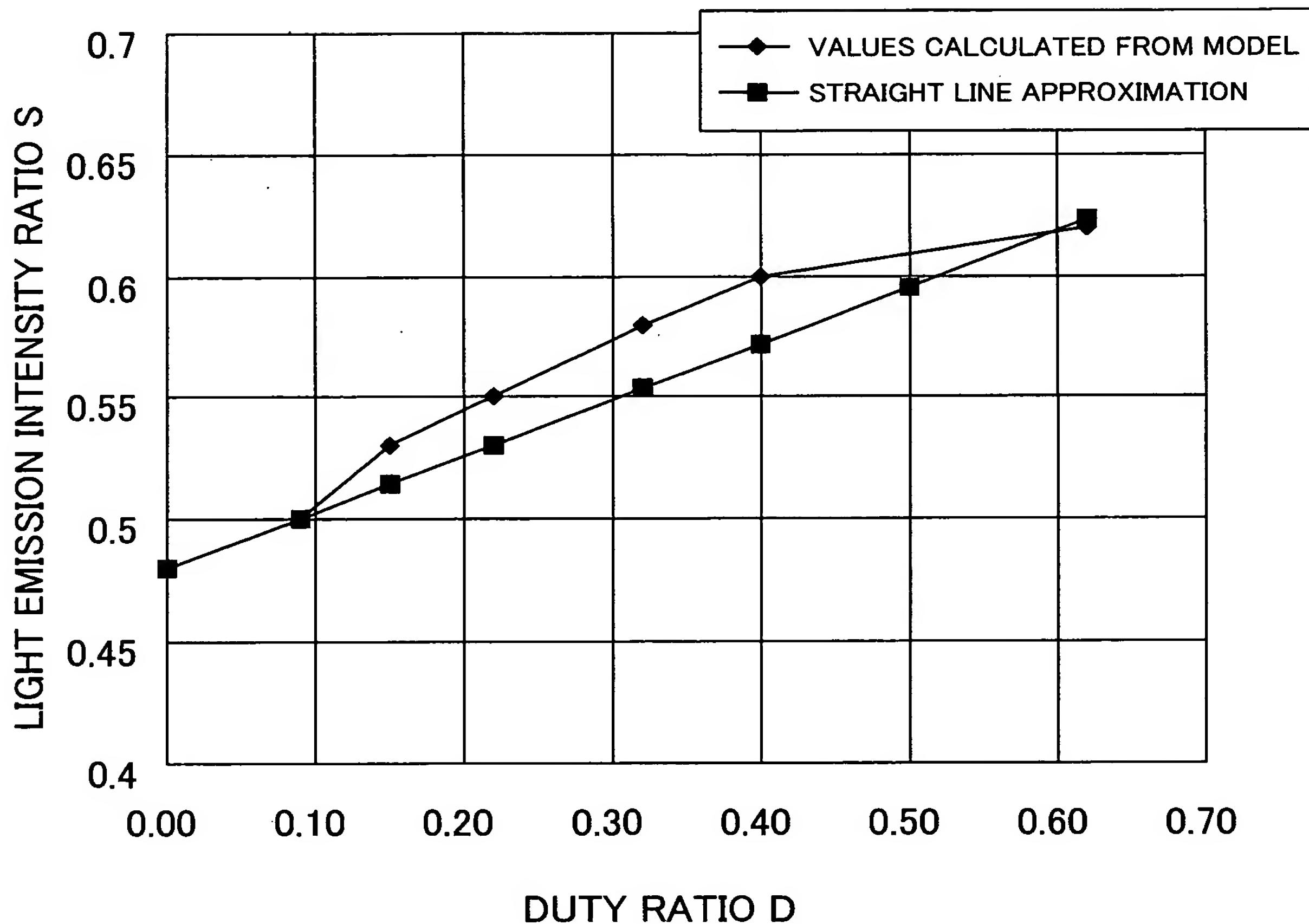


FIG. 92 (b)

DUTY RATIO D	LIGHT EMISSION INTENSITY RATIO S
0.09	0.50
0.15	0.53
0.22	0.55
0.32	0.58
0.40	0.60
0.619	0.62

VALUES CALCULATED FROM MODEL

FIG. 93(a)

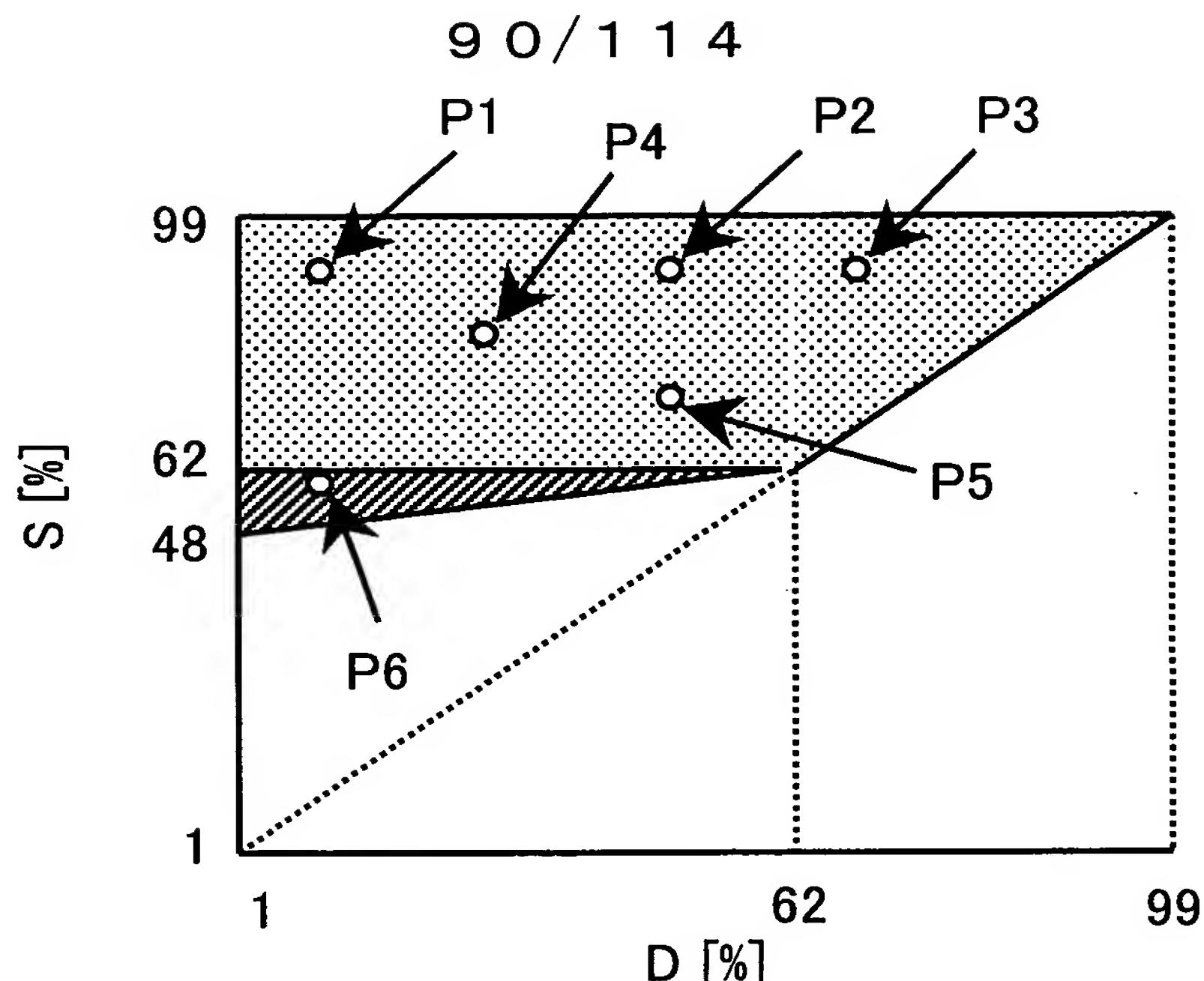
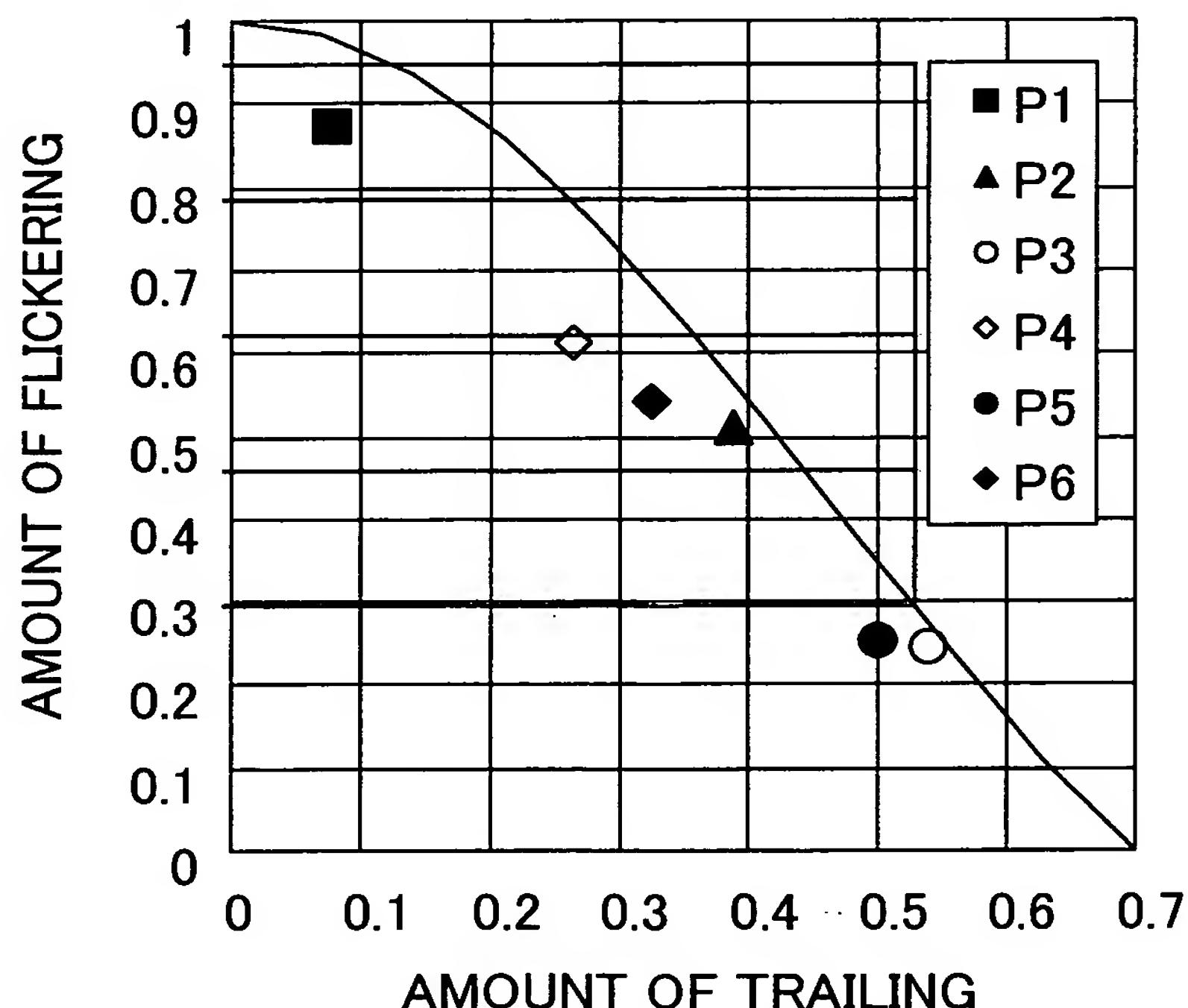


FIG. 93(b)

POINT	D (%)	S (%)	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
P1	0.1	0.9	0.08	0.87
P2	0.5	0.9	0.39	0.51
P3	0.7	0.9	0.54	0.25
P4	0.3	0.8	0.26	0.61
P5	0.5	0.7	0.5	0.25
P6	0.1	0.6	0.33	0.54

FIG. 93(c)



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FIG. 94(a)

INSTANTANEOUS LIGHT
EMISSION INTENSITY

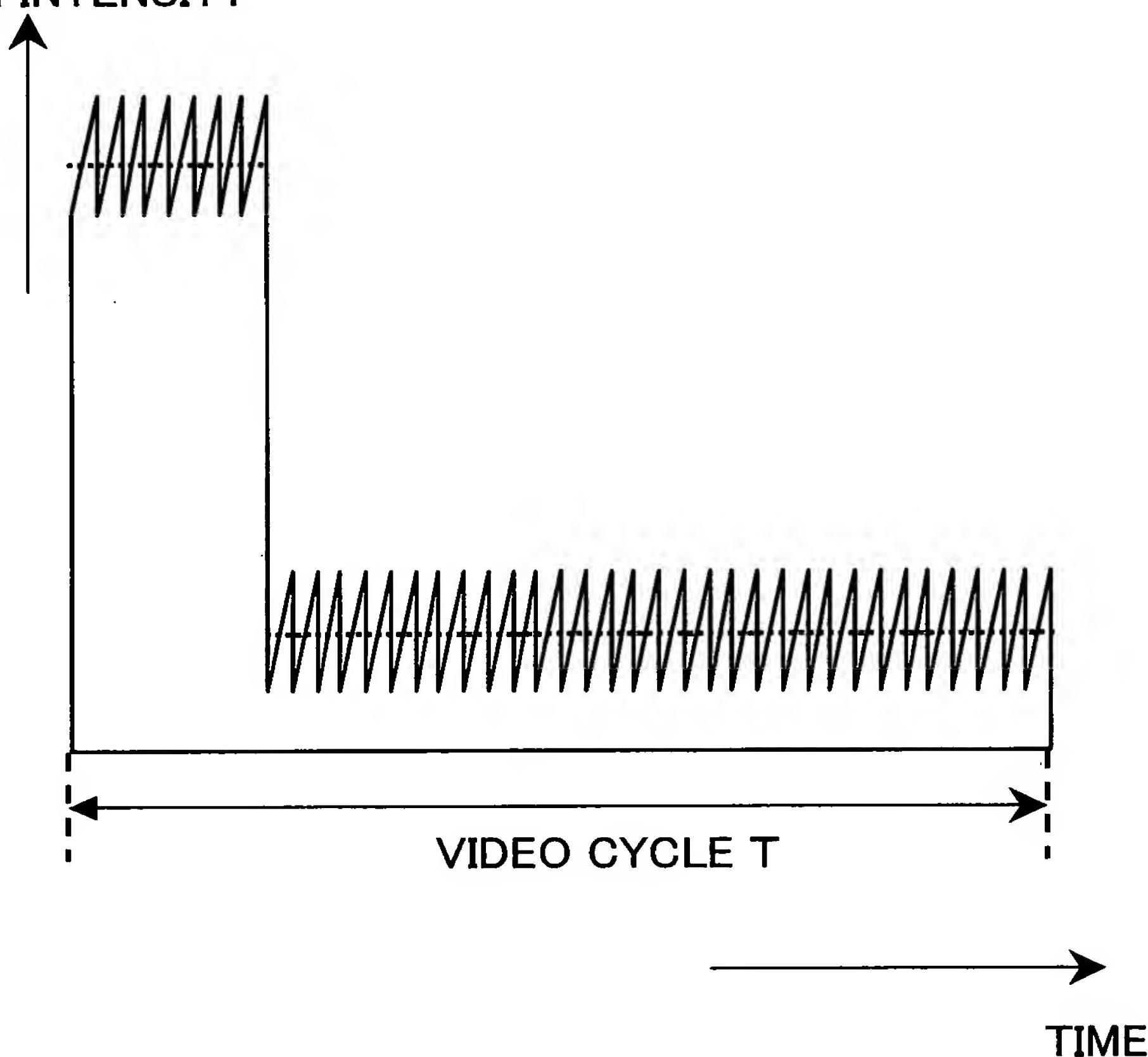
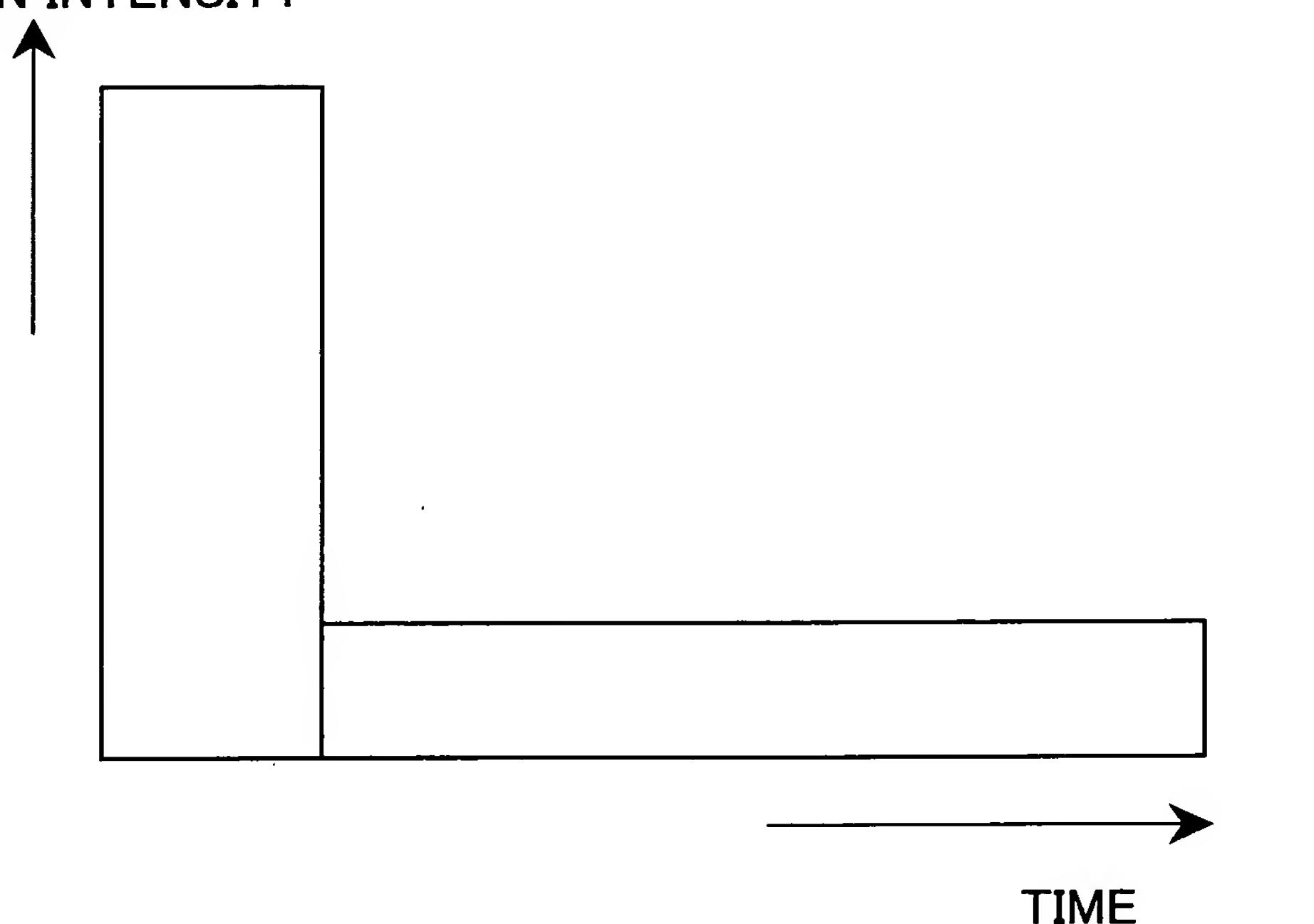


FIG. 94(b)

INSTANTANEOUS LIGHT
EMISSION INTENSITY



9 2 / 1 1 4

FIG. 95(a)

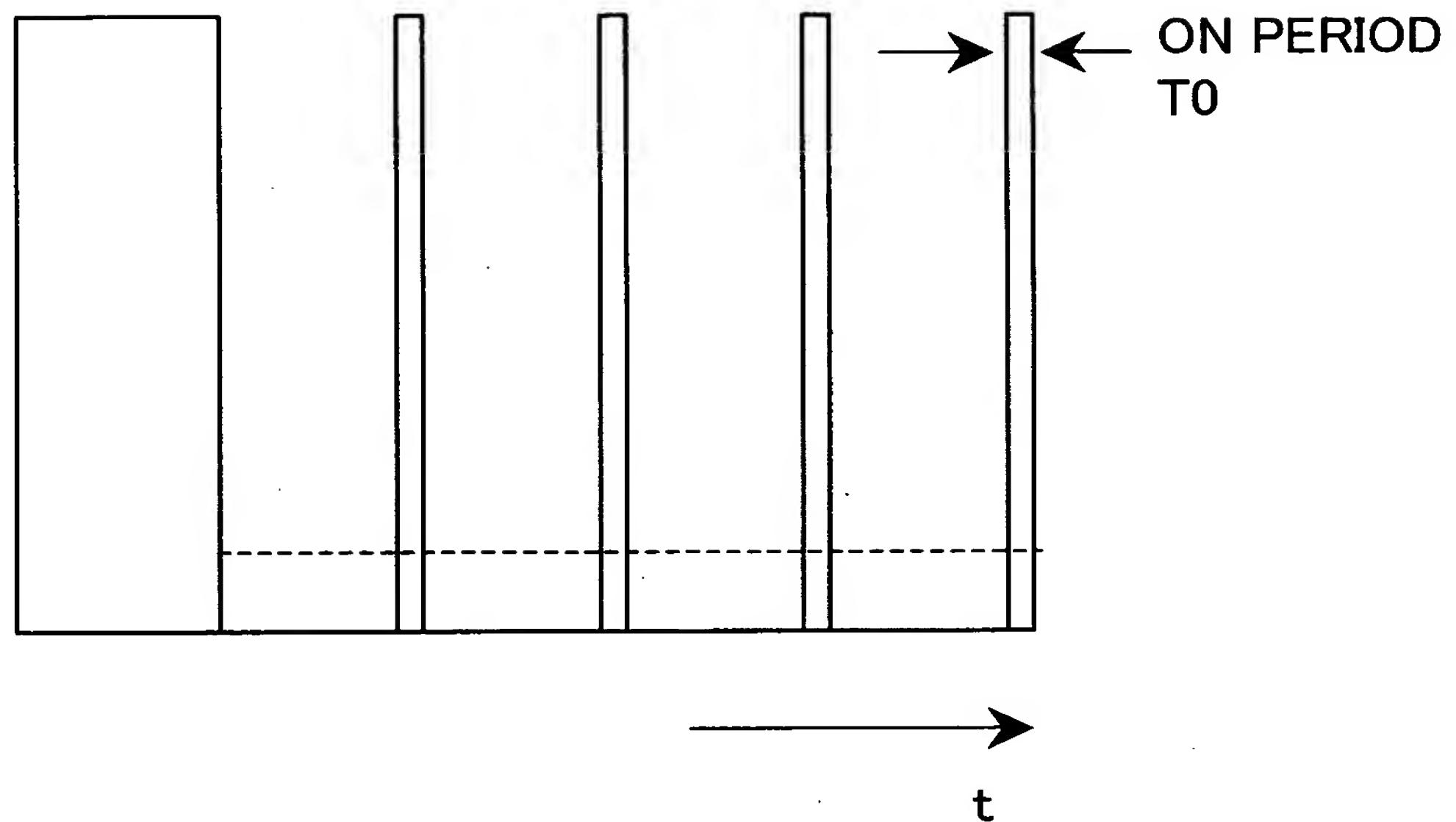
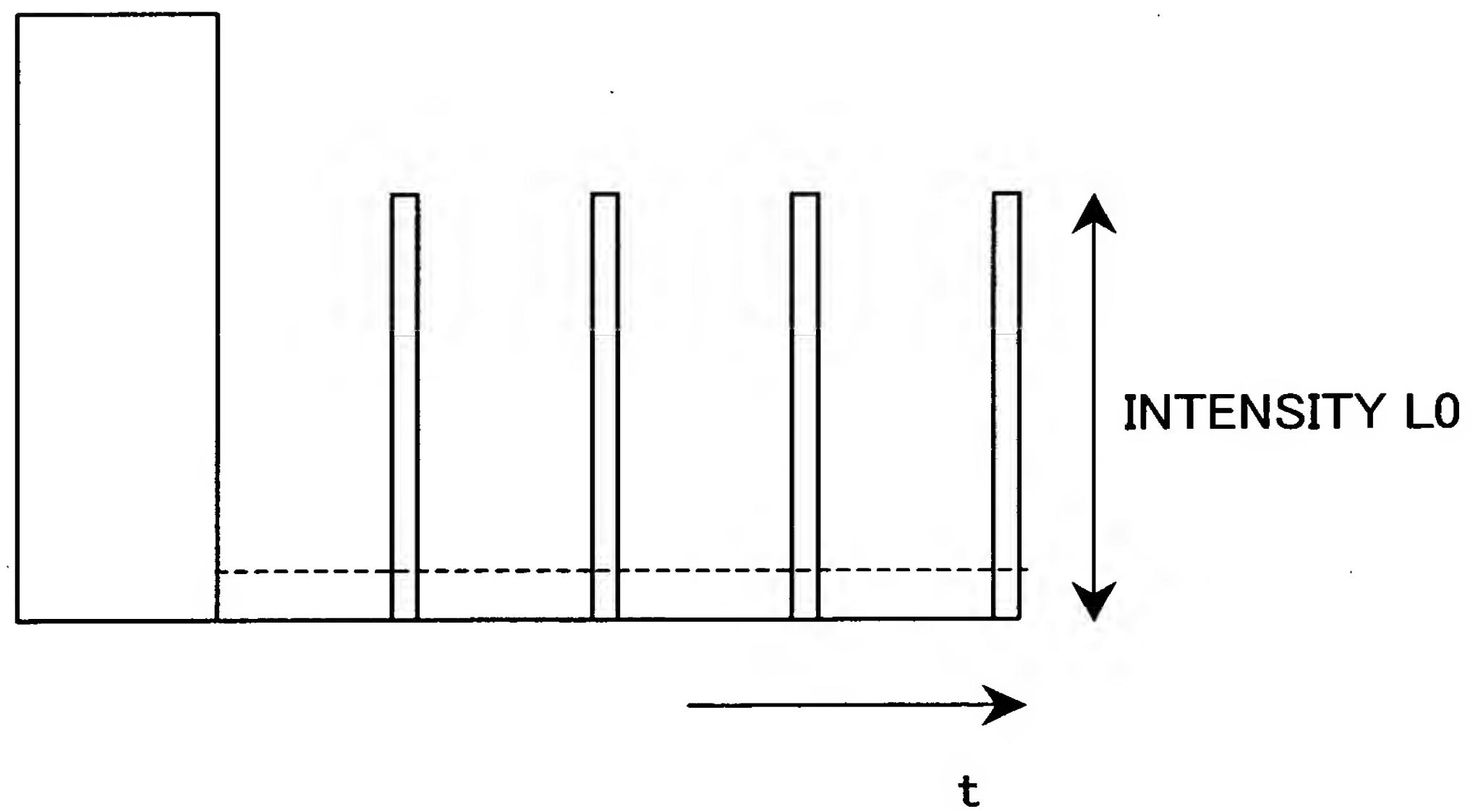


FIG. 95(b)



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FIG. 96

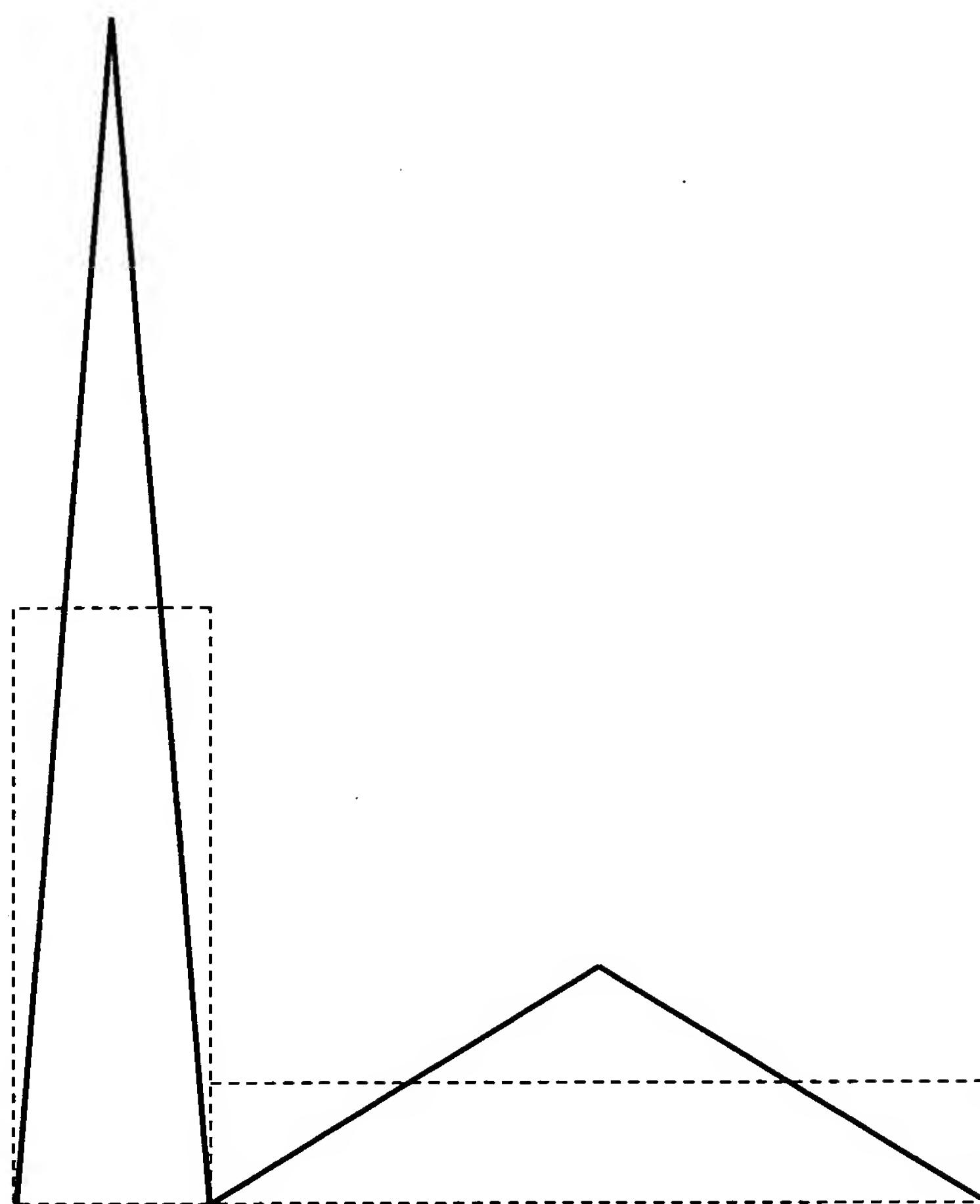
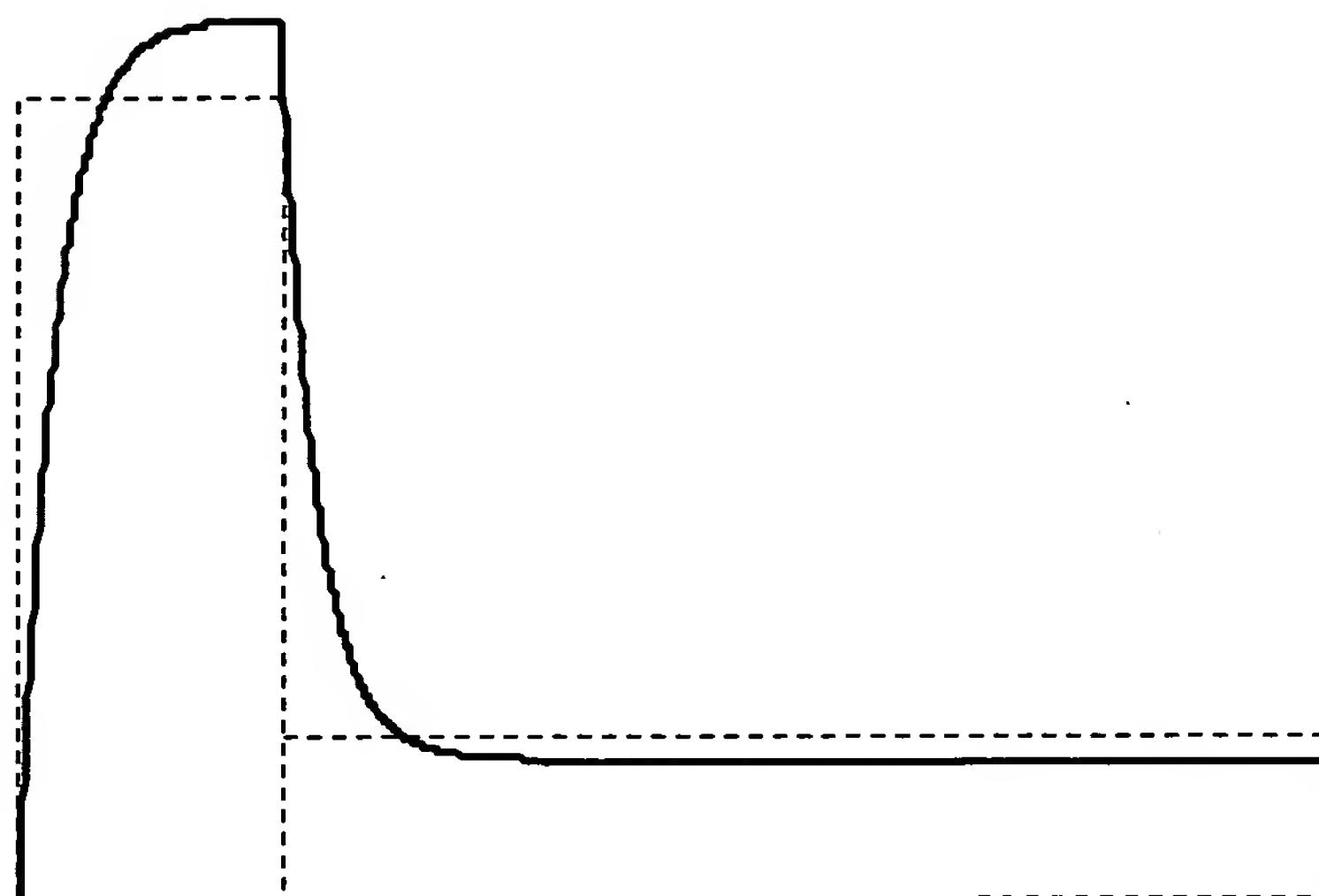
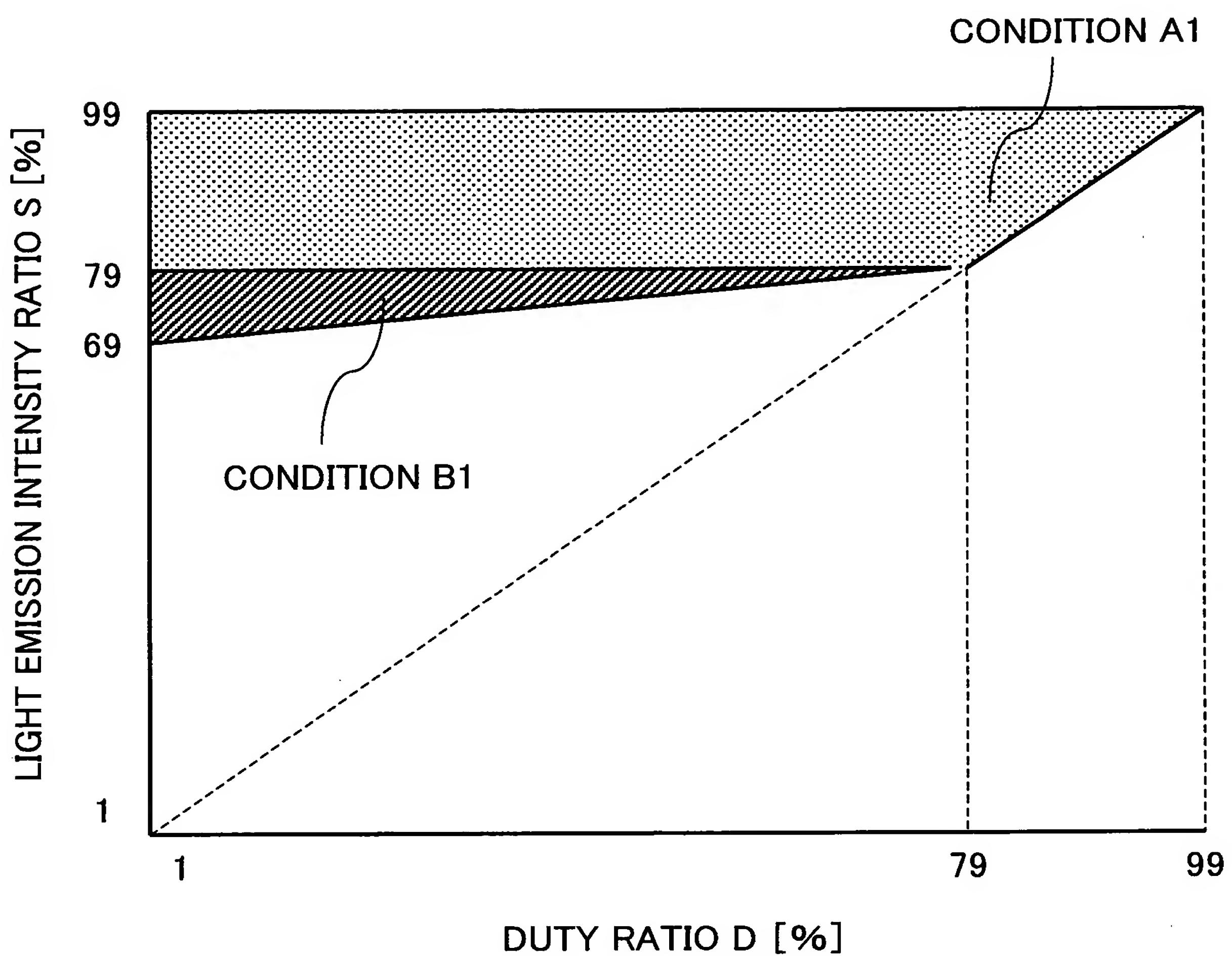


FIG. 97



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FIG. 98



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FIG. 99(a)

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

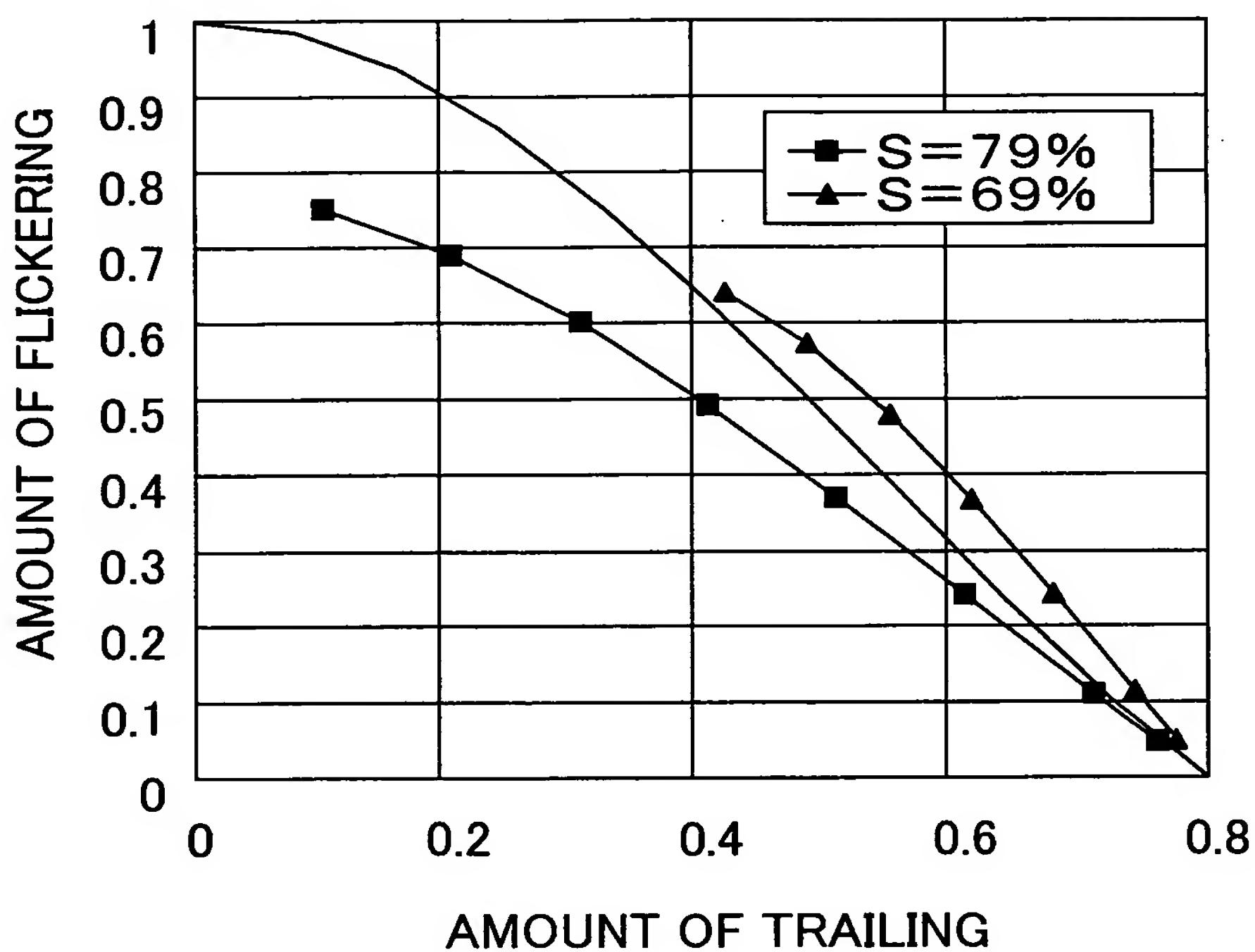


FIG. 99(b)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.42	0.64
20	0.48	0.57
30	0.55	0.48
40	0.61	0.37
50	0.68	0.24
60	0.74	0.11
65	0.77	0.05

S FIXED AT 69%

FIG. 99(c)

DUTY RATIO D	AMOUNT OF TRAILING	AMOUNT OF FLICKERING
10	0.10	0.75
20	0.20	0.69
30	0.30	0.60
40	0.41	0.49
50	0.51	0.37
60	0.61	0.24
70	0.71	0.11
75	0.76	0.05

S FIXED AT 79%

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FIG. 100(a)

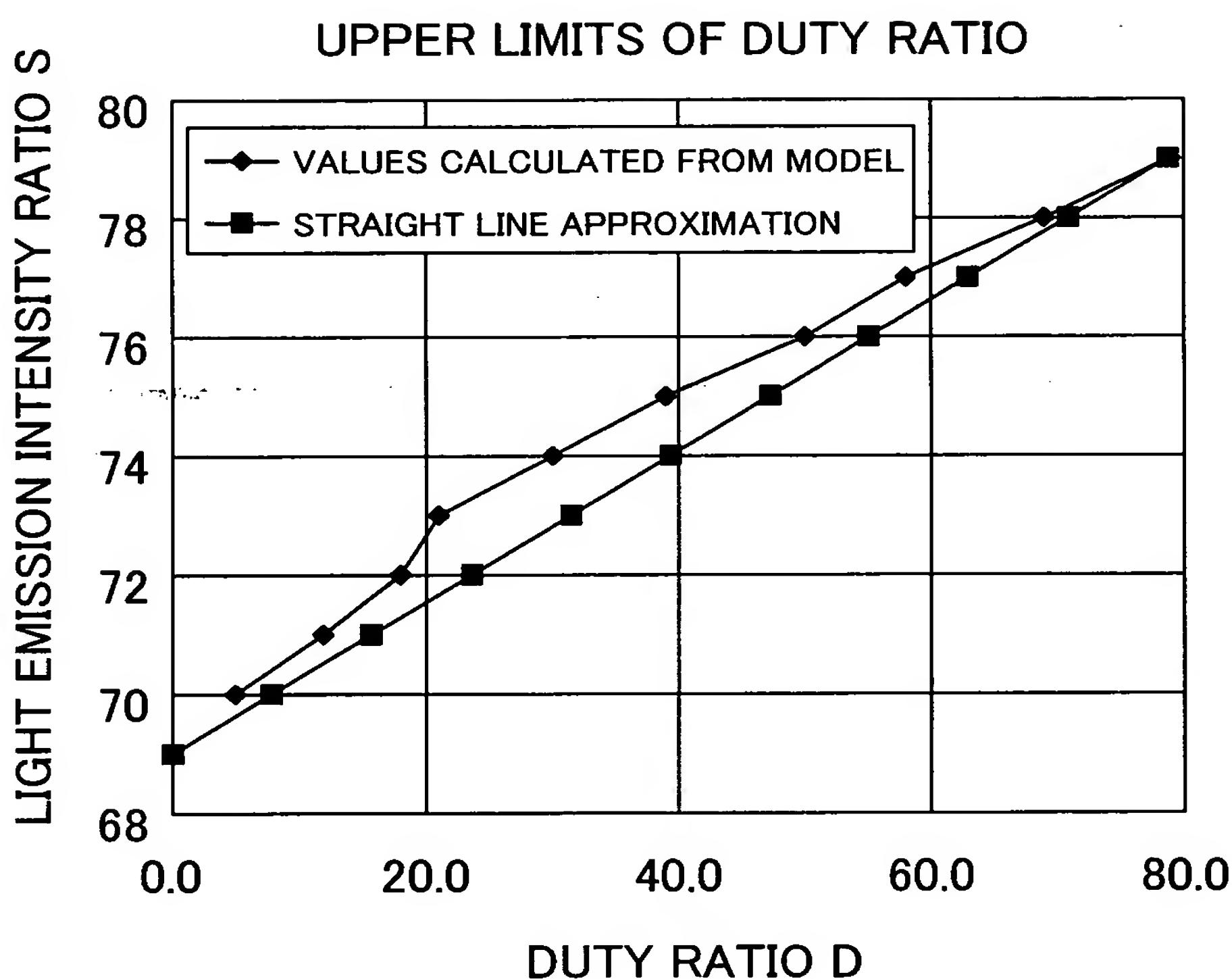


FIG. 100(b)

LIGHT EMISSION INTENSITY RATIO S	DUTY RATIO D
70	5.0
71	12.0
72	18.0
73	21.0
74	30.0
75	39.0
76	50.0
77	58.0
78	69.0
79	78.9

VALUES CALCULATED FROM MODEL

FIG. 101

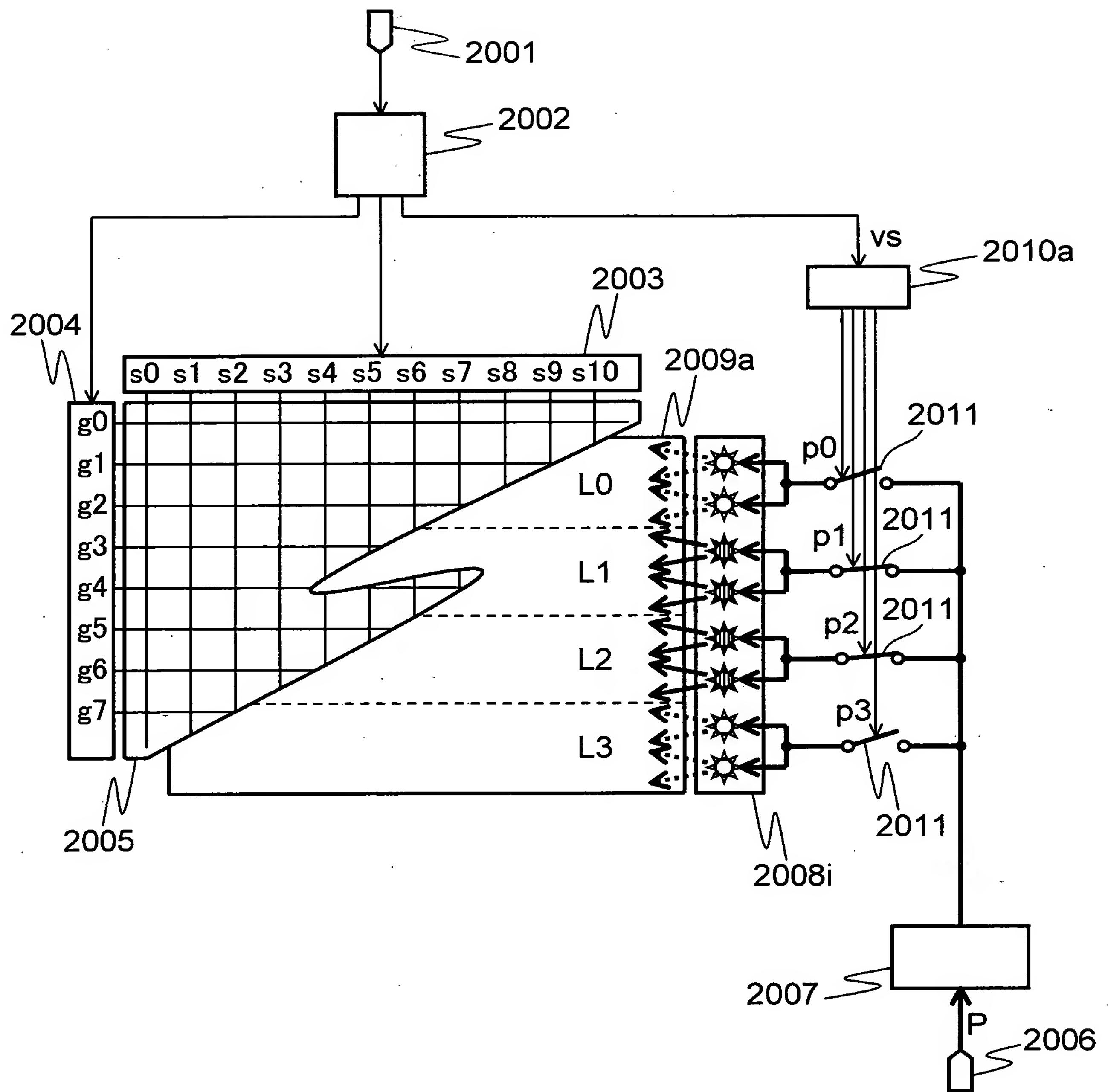
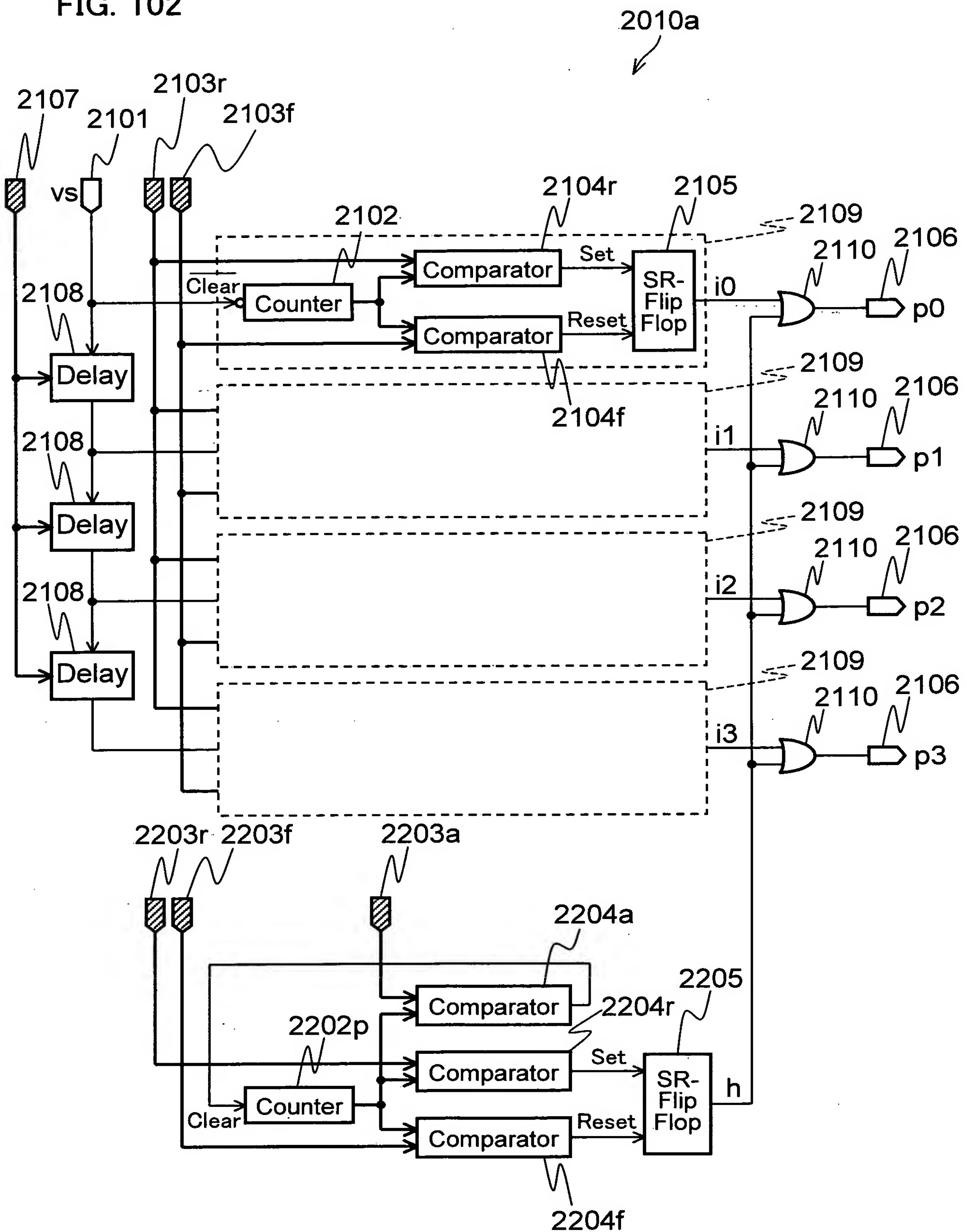


FIG. 102



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FIG. 103

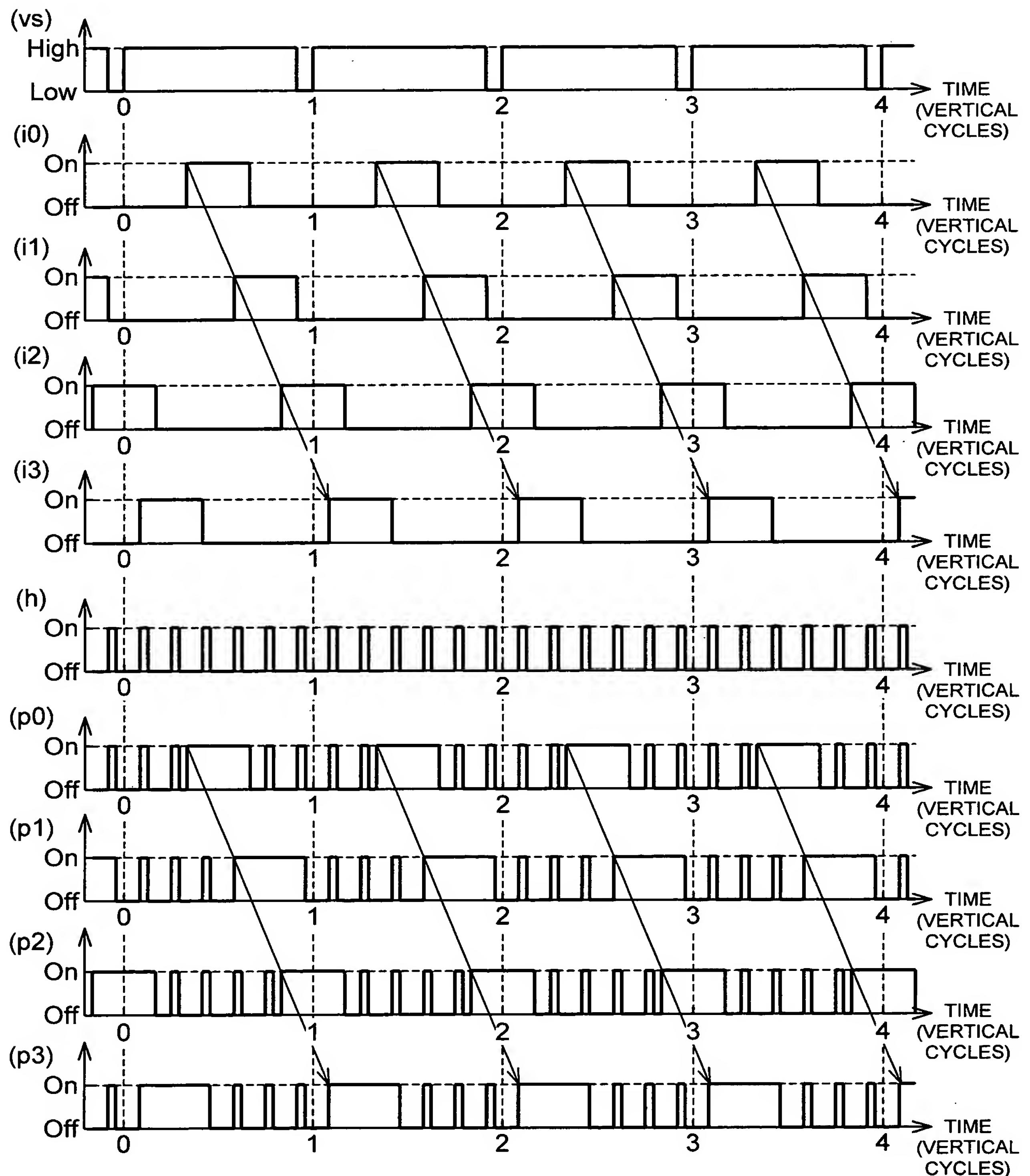
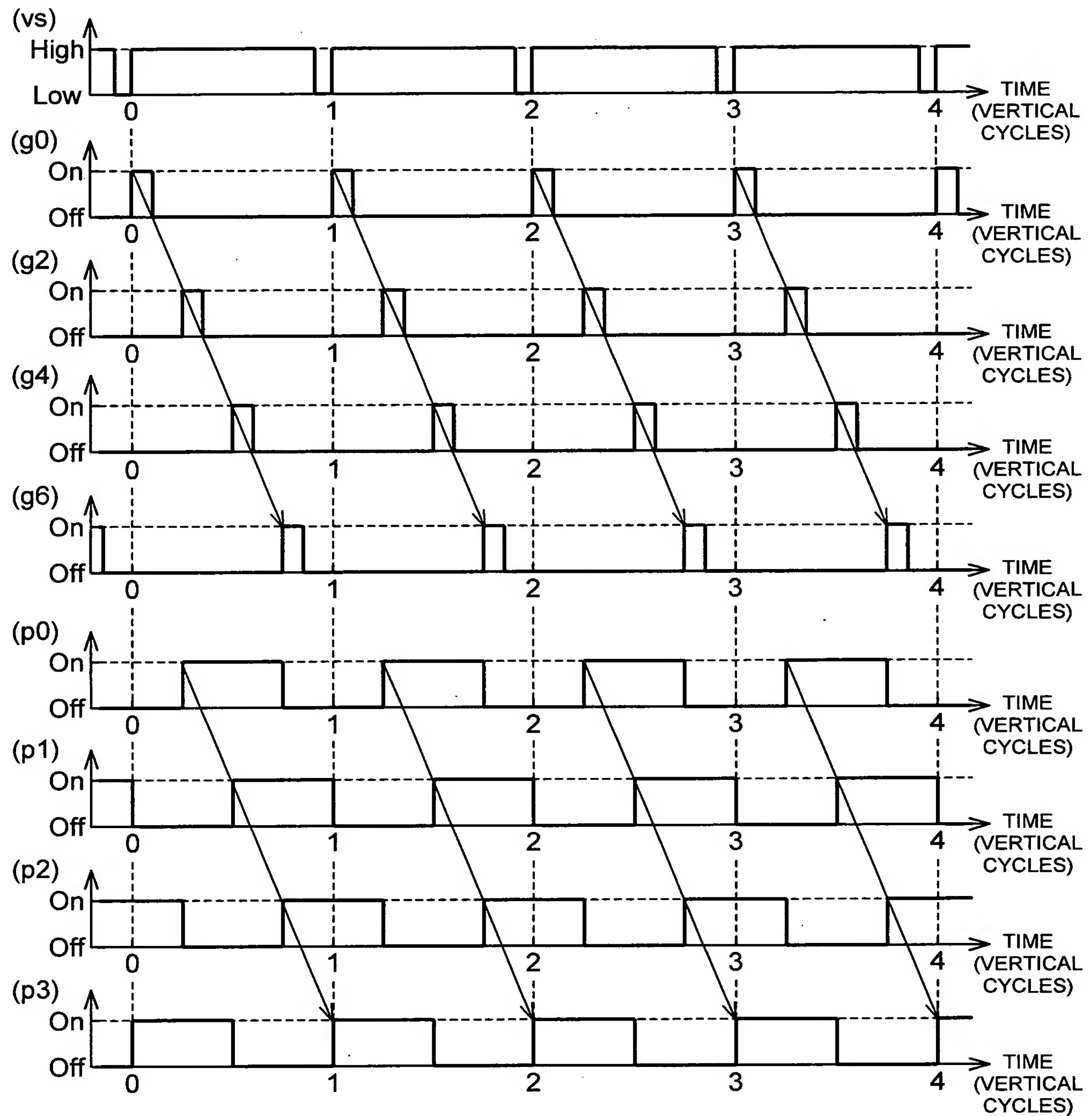


FIG. 104



1 0 1 / 1 1 4

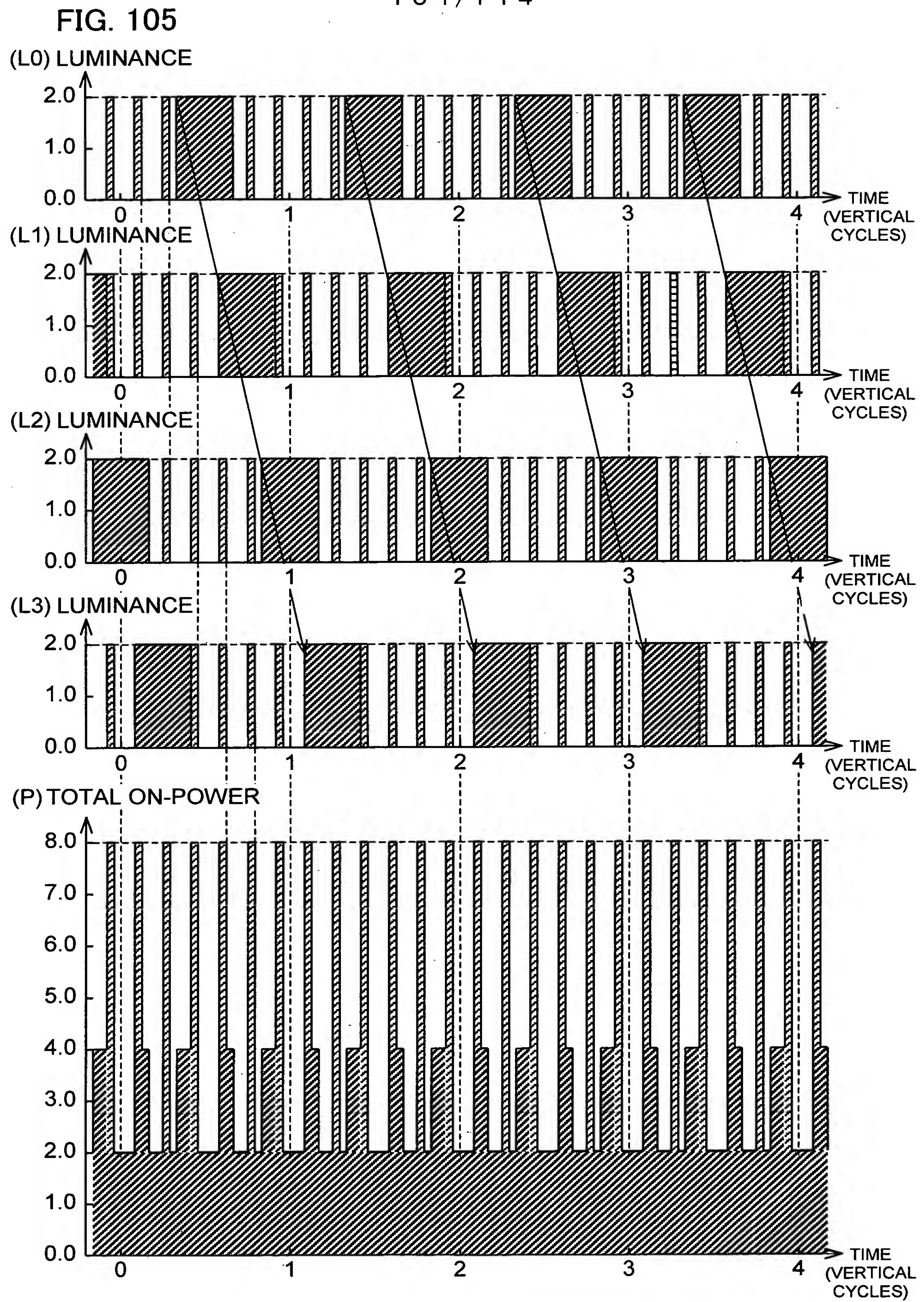


FIG. 106

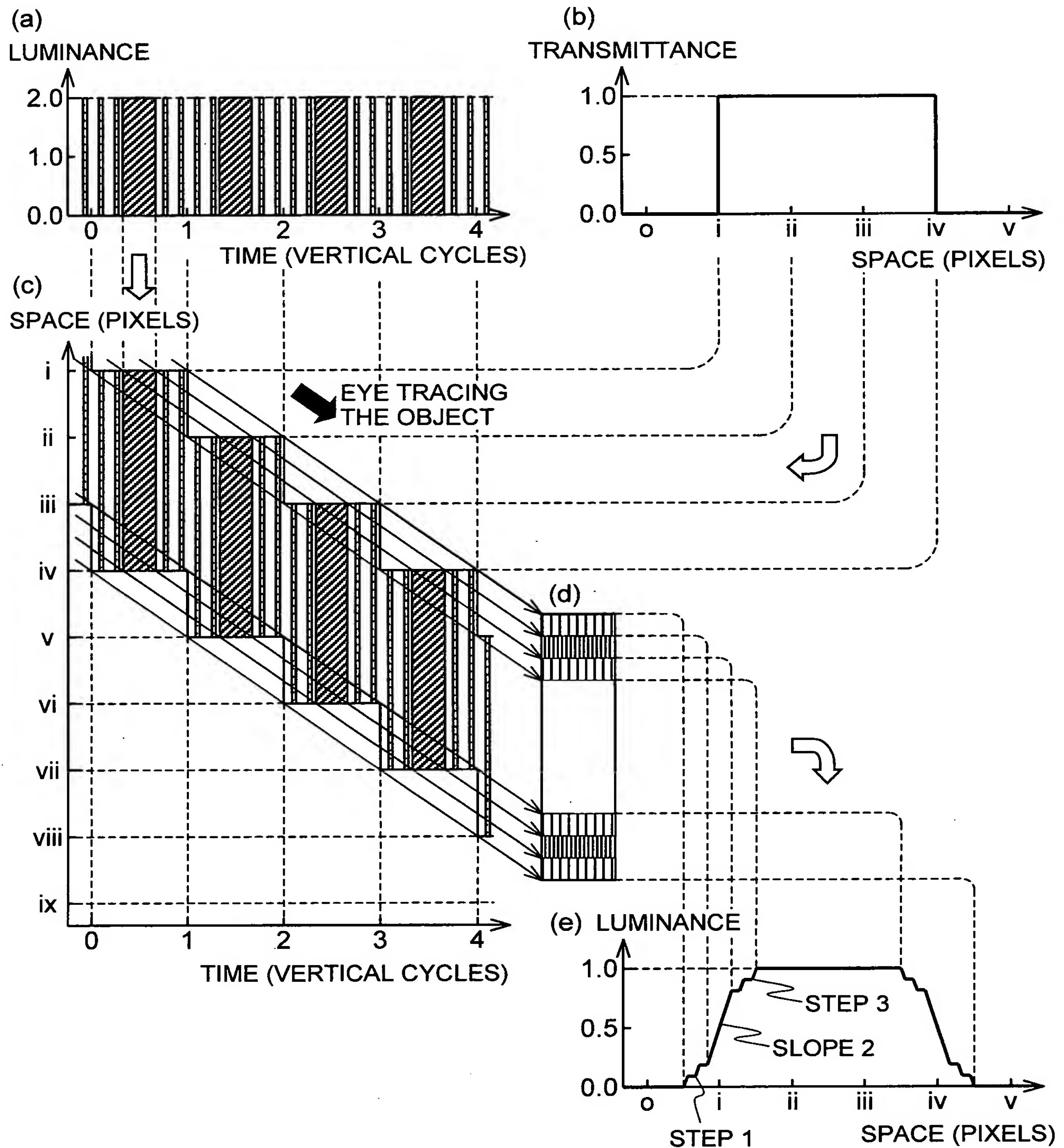
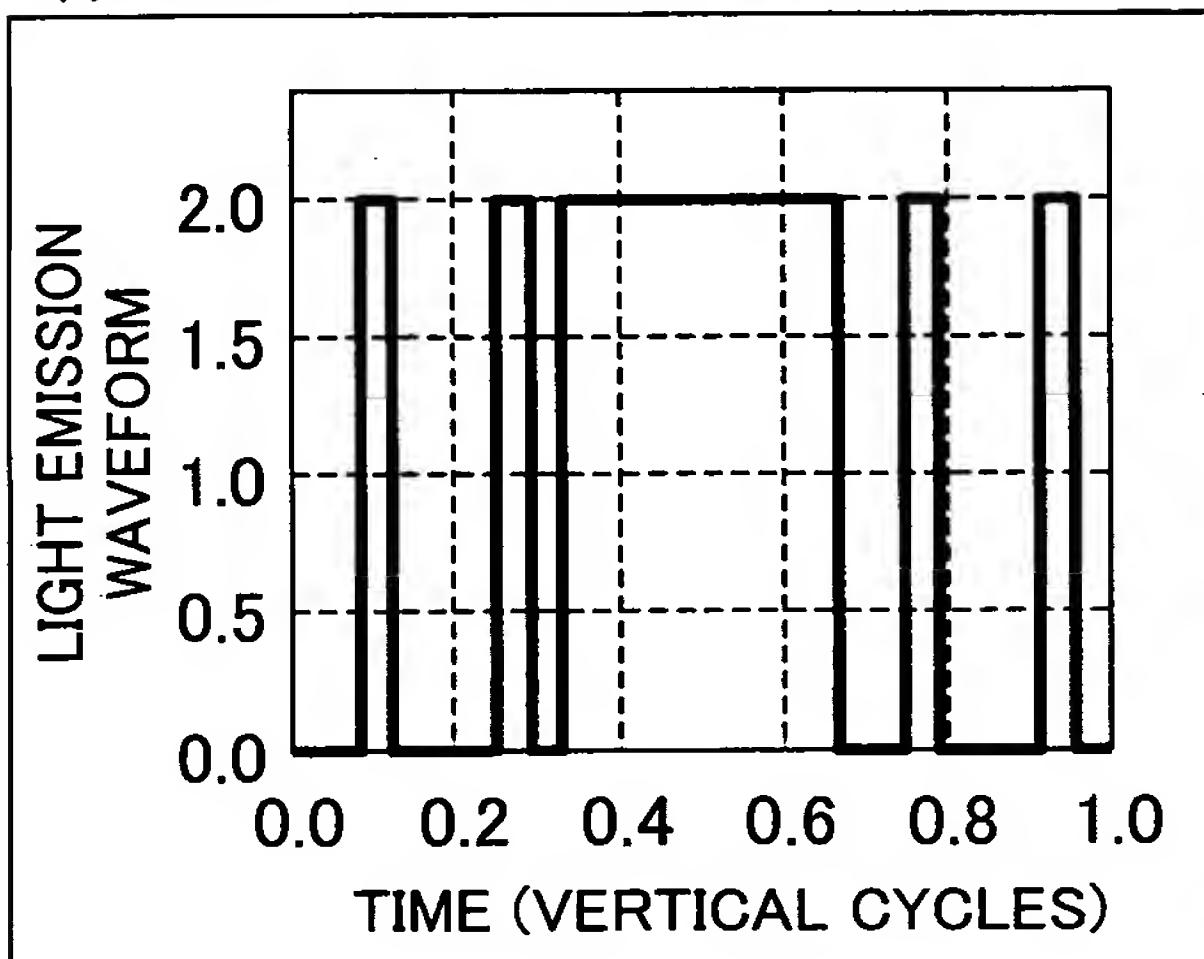
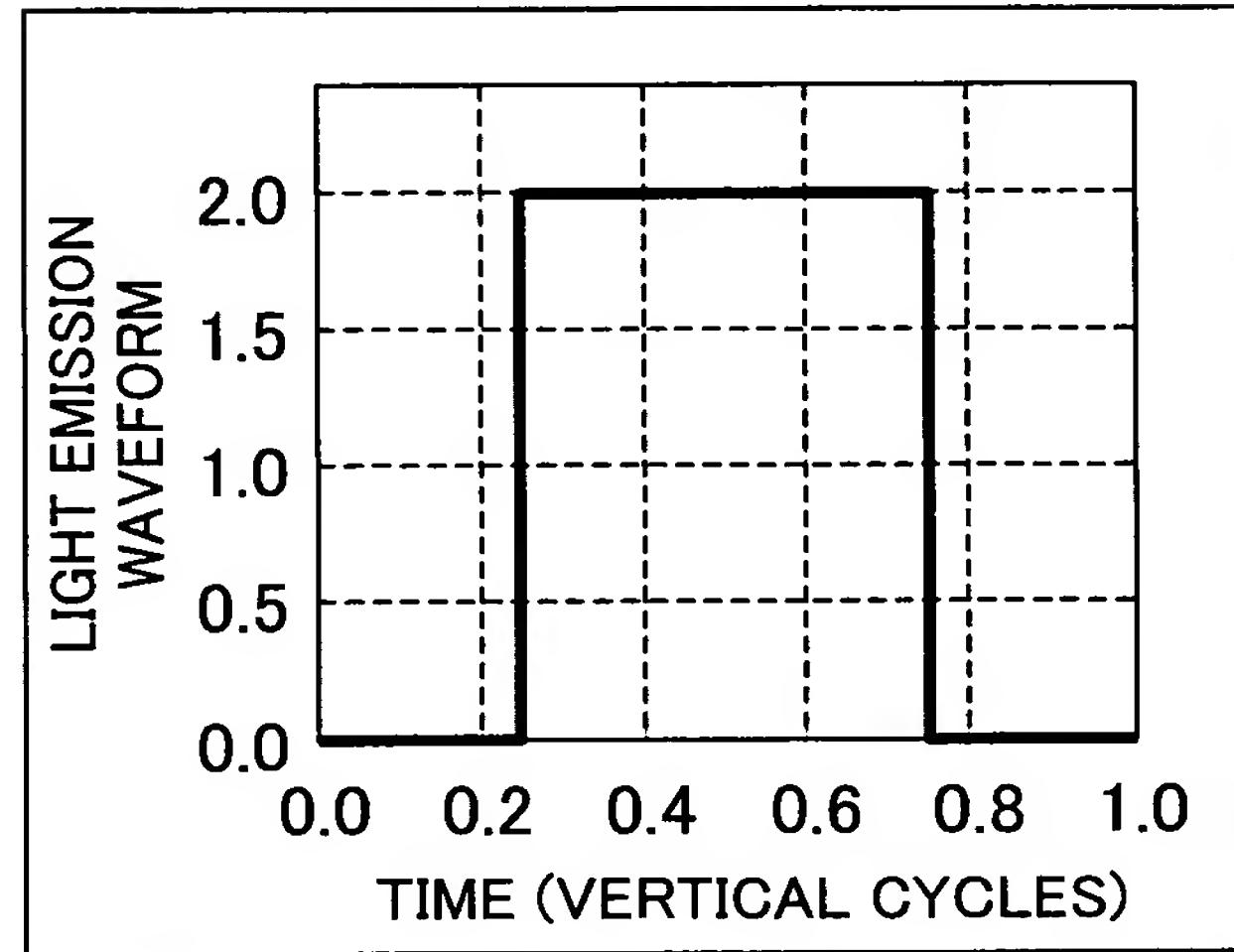


FIG. 107

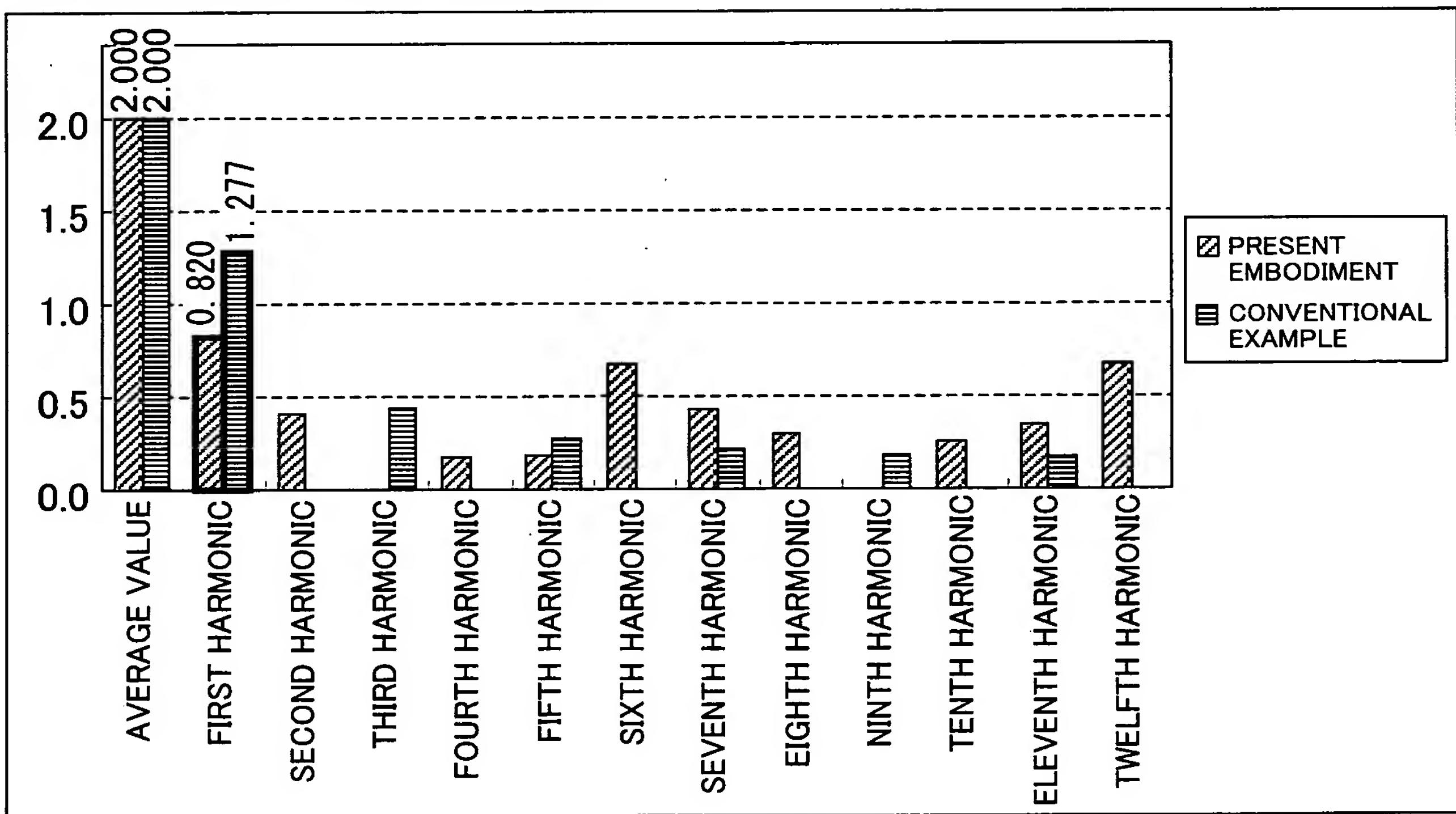
(I) PRESENT EMBODIMENT



(II) CONVENTIONAL EXAMPLE



(III) HARMONIC COMPONENTS



1 0 4 / 1 1 4

FIG. 108

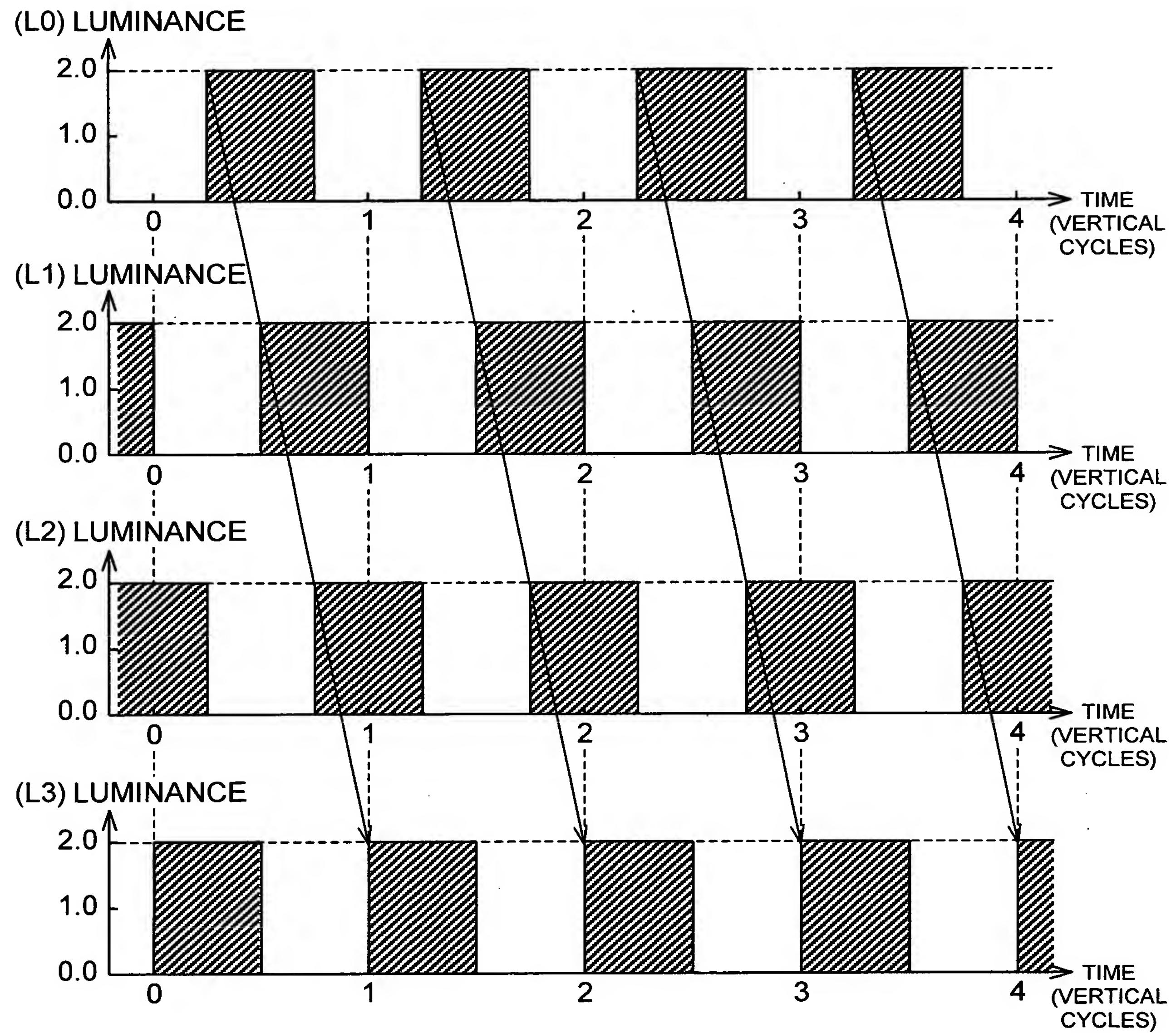


FIG. 109

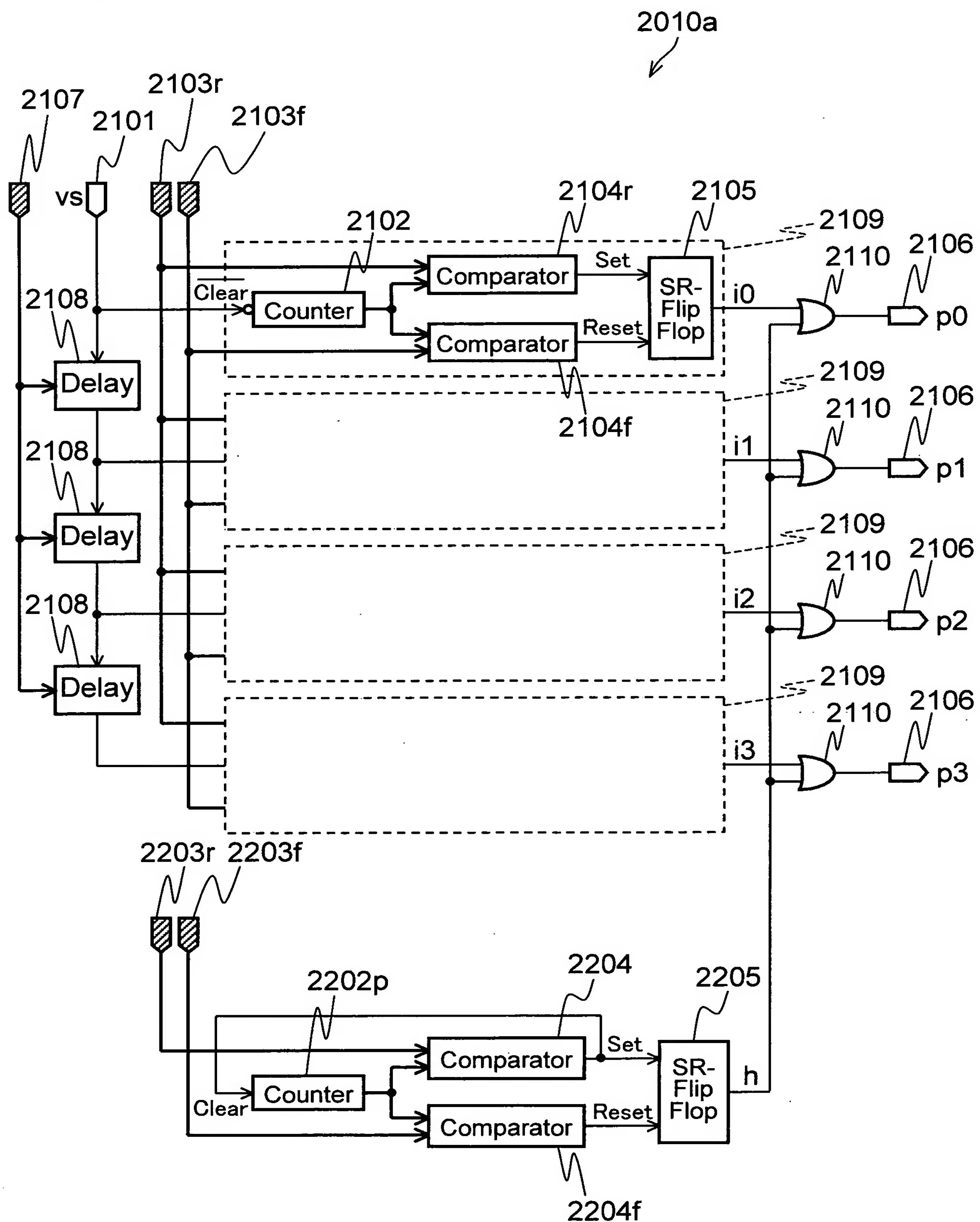
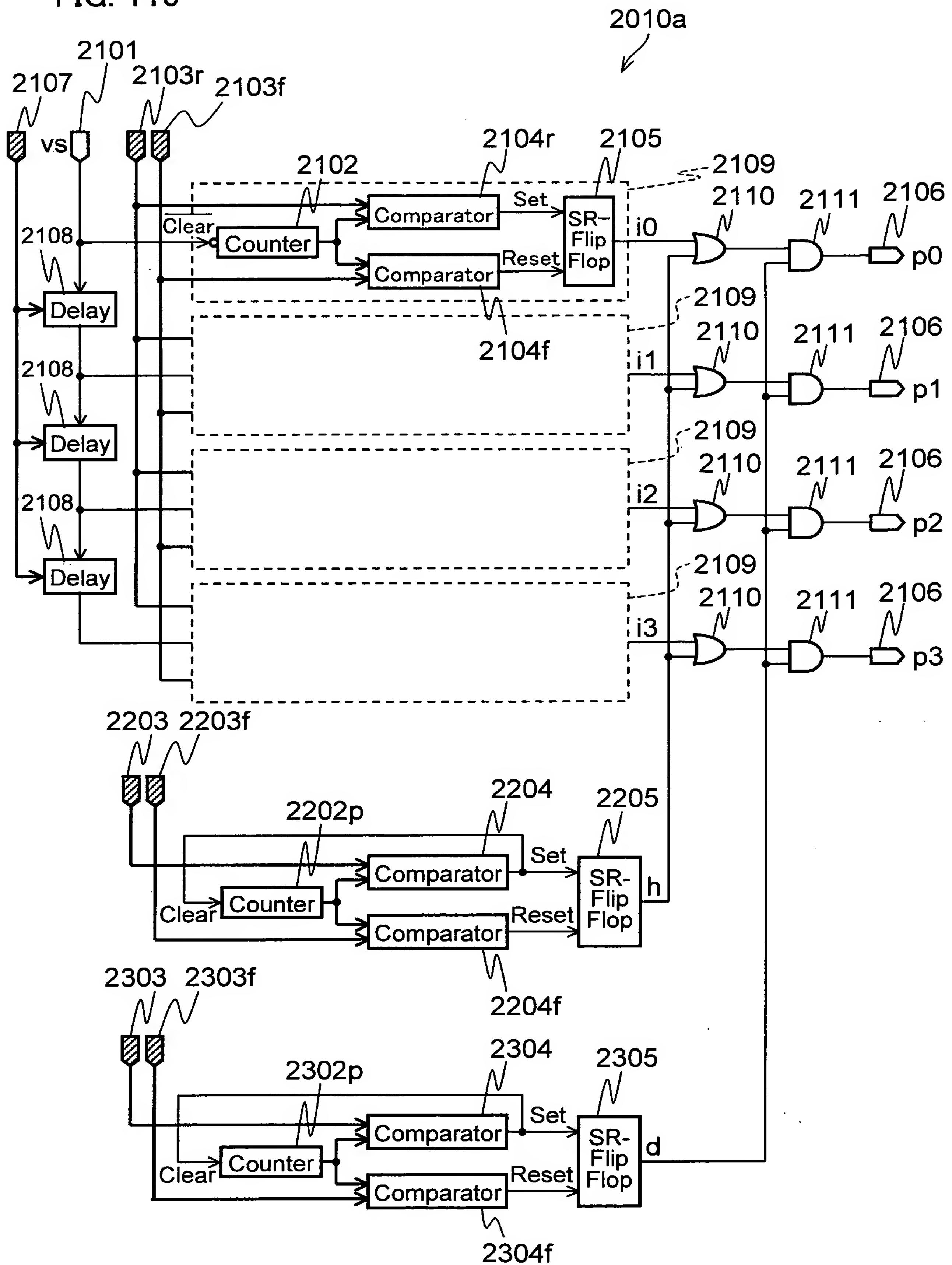


FIG. 110



1 0 7 / 1 1 4

FIG. 111

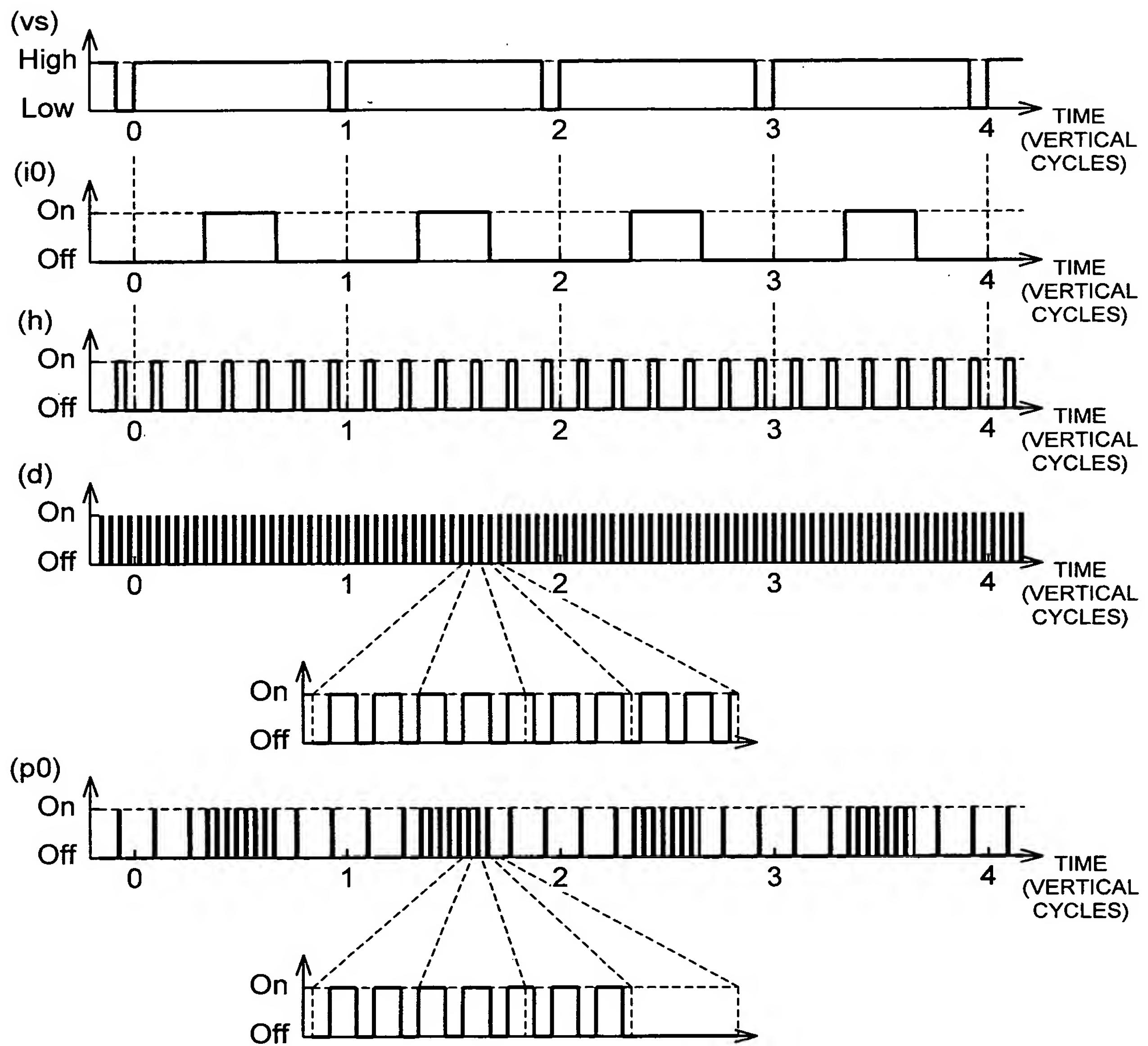


FIG. 112

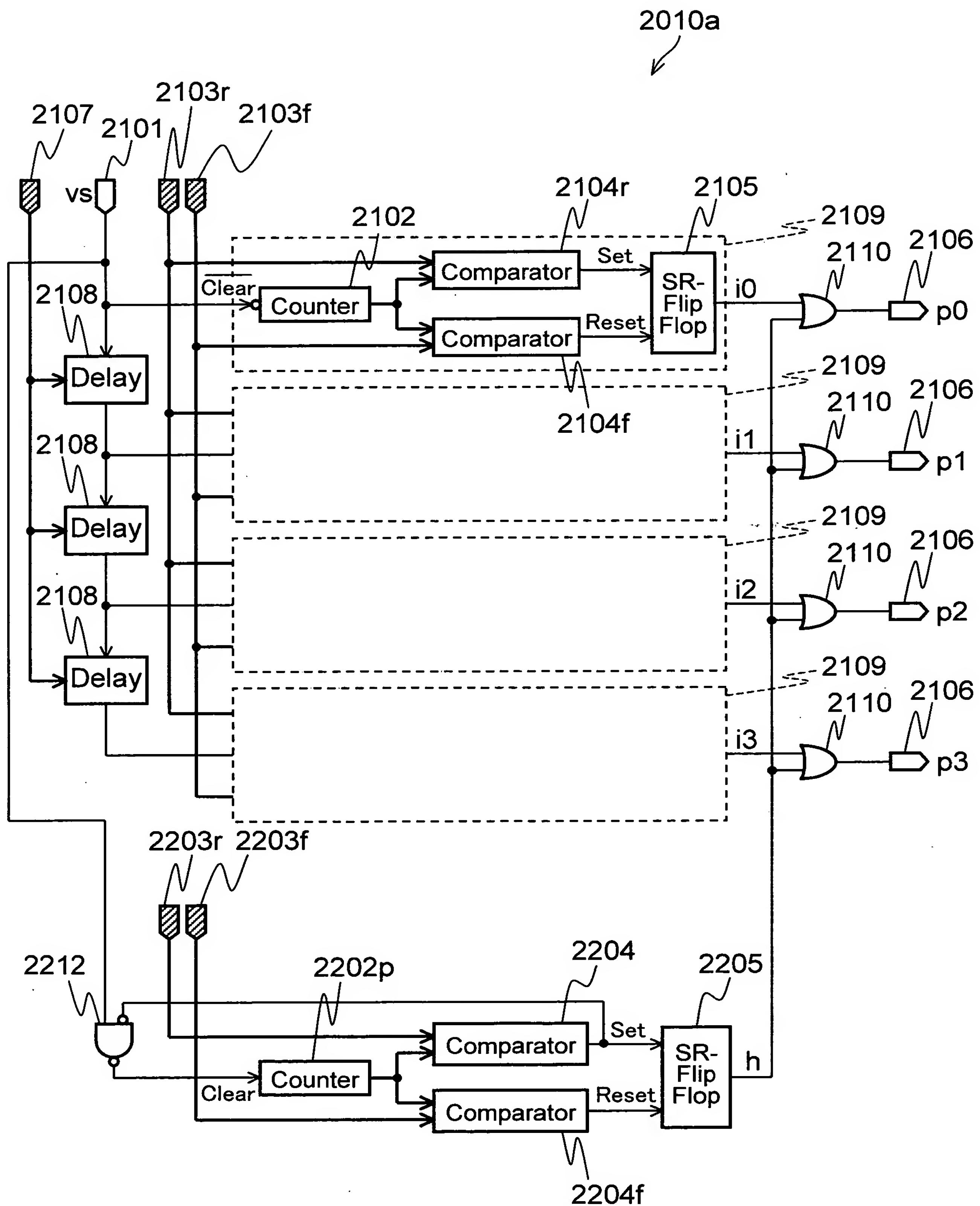


FIG. 113

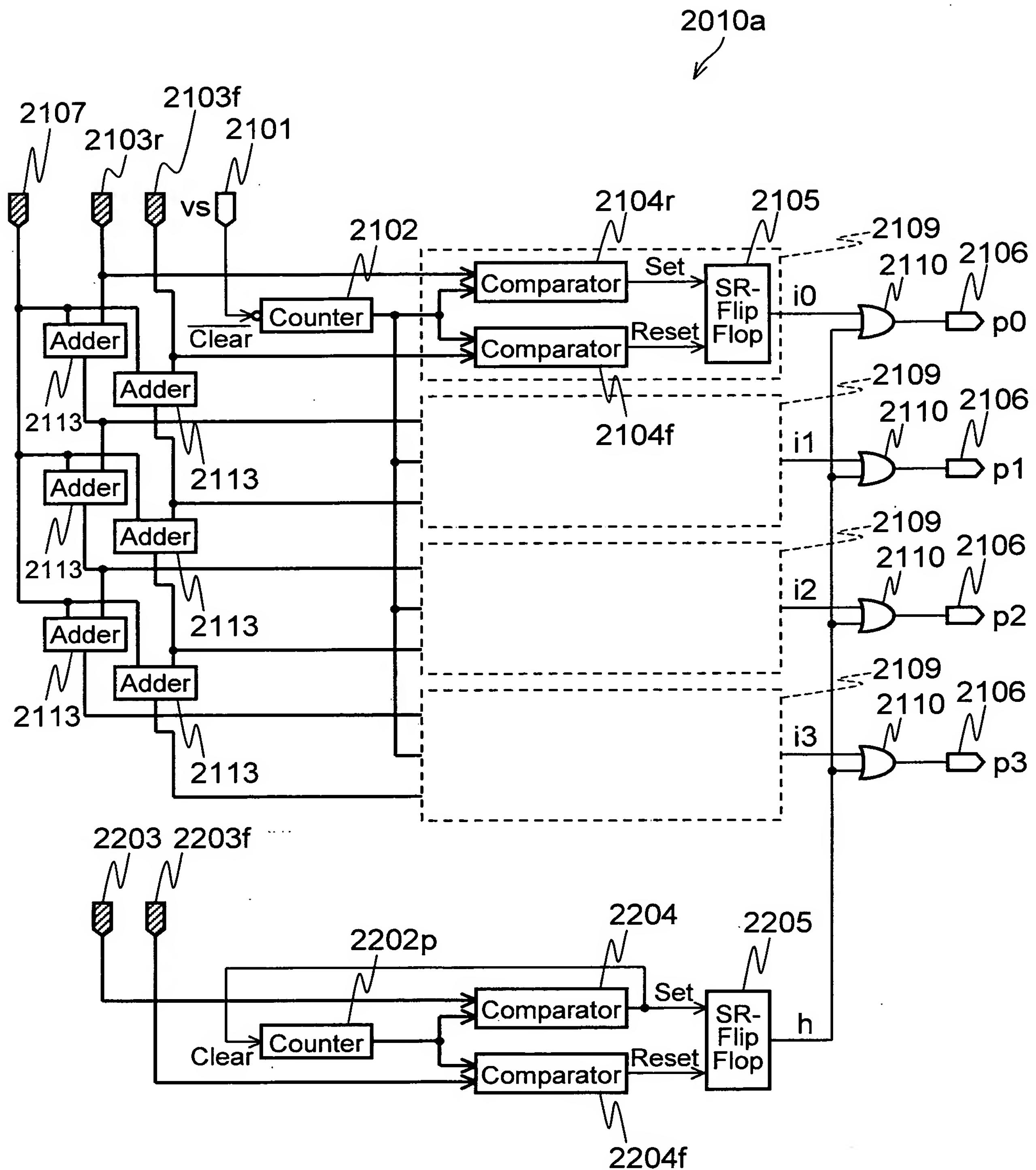


FIG. 114

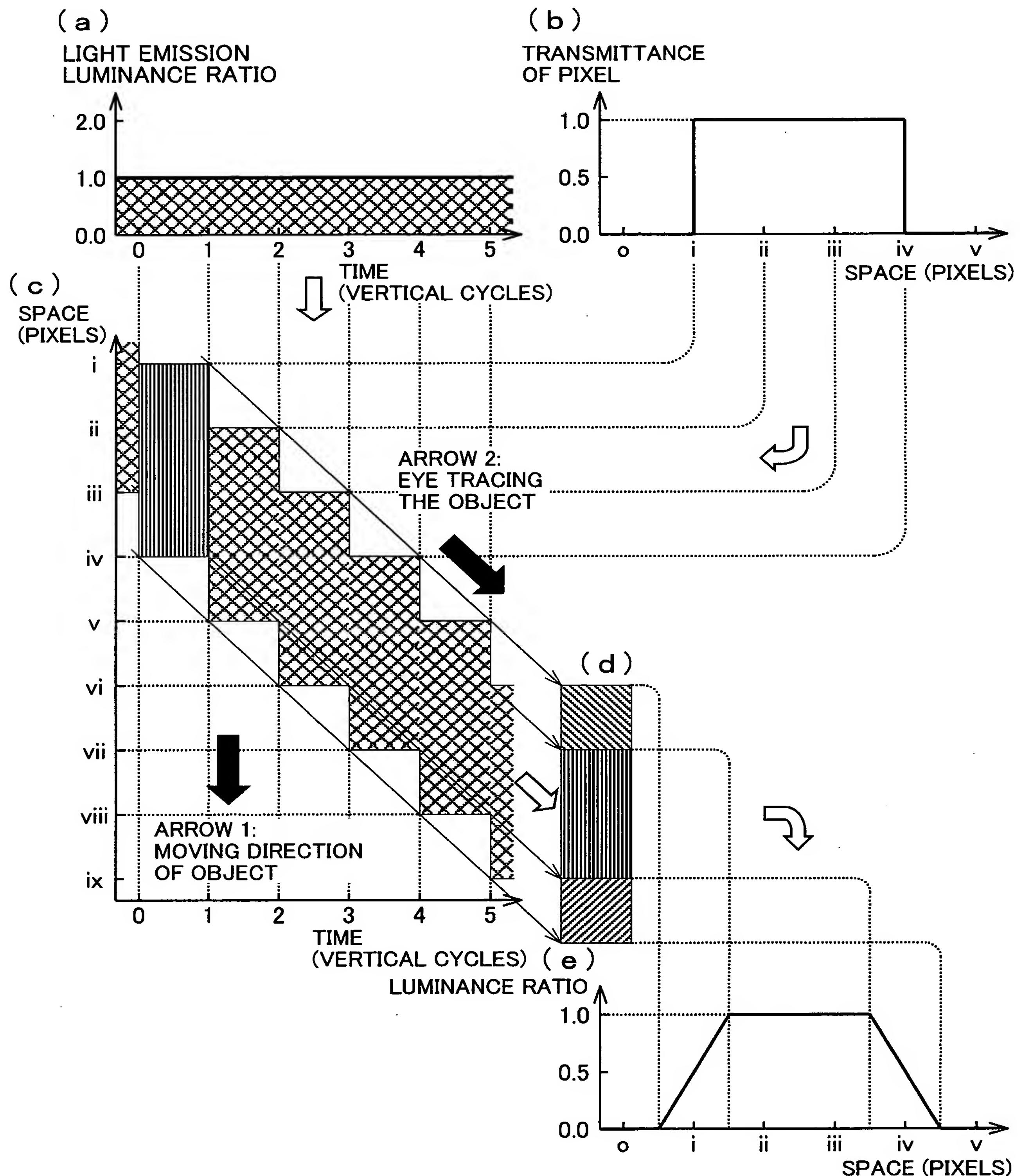
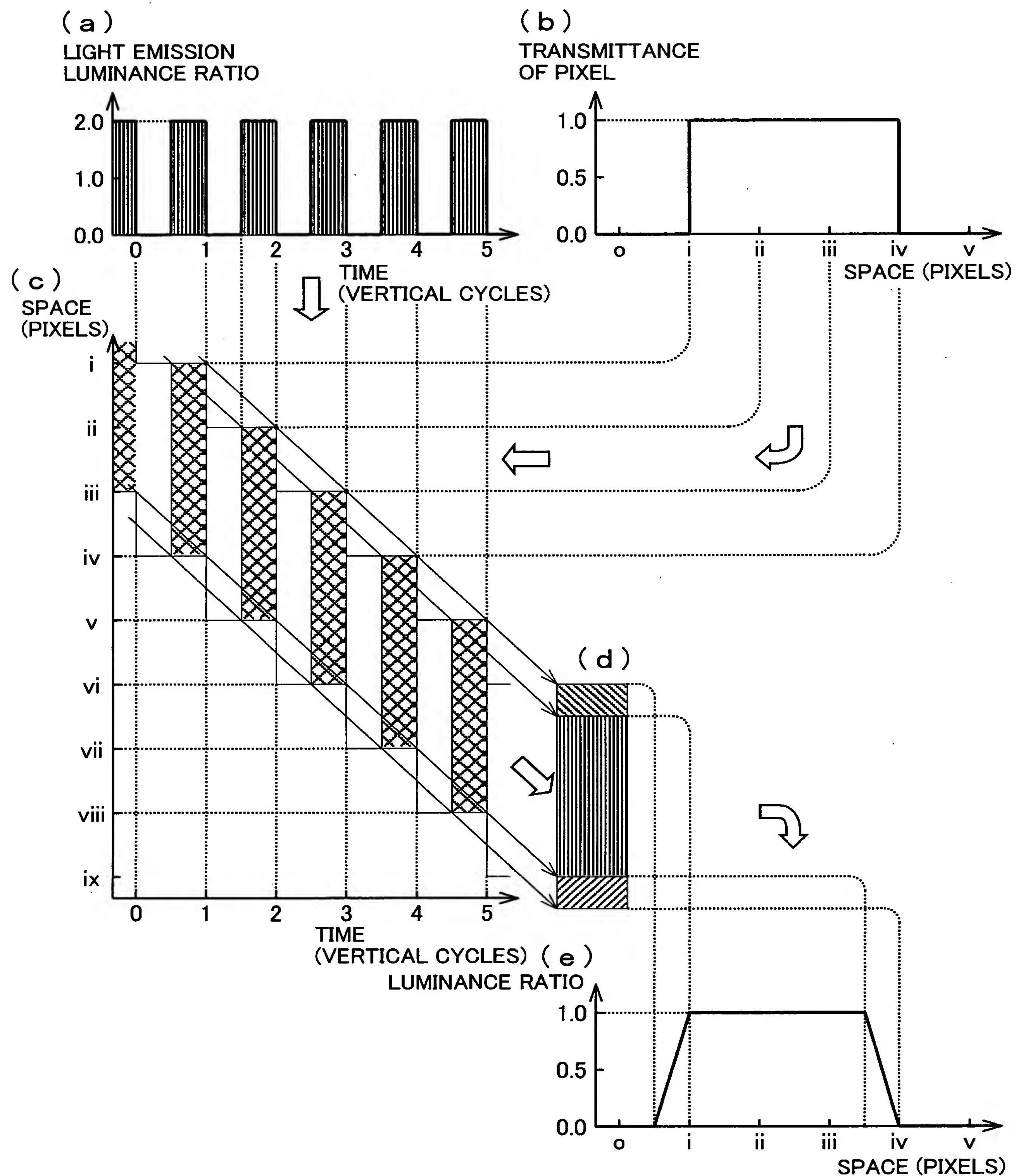


FIG. 115



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FIG. 116 (a)

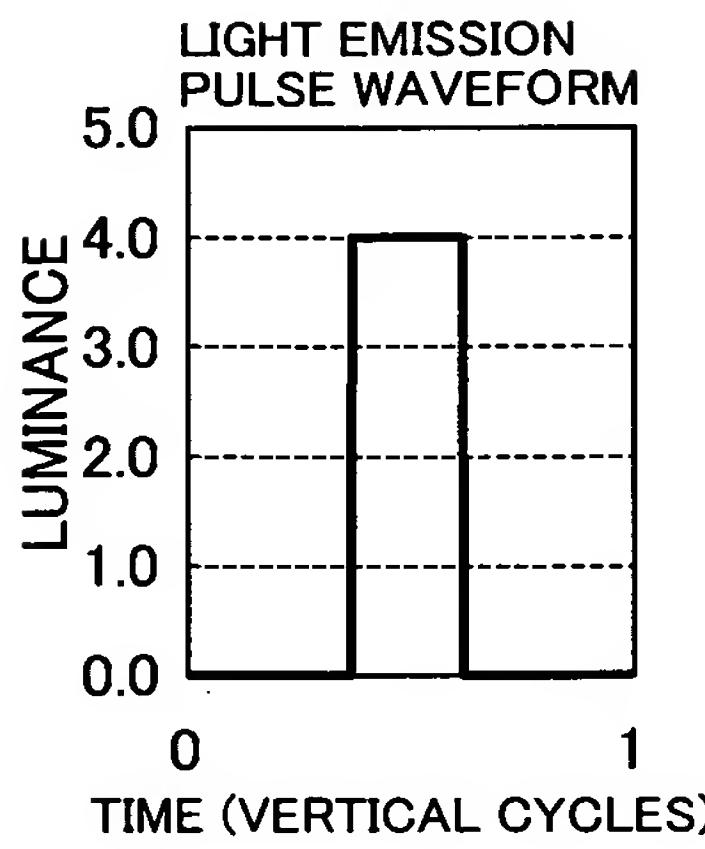


FIG. 116 (b)

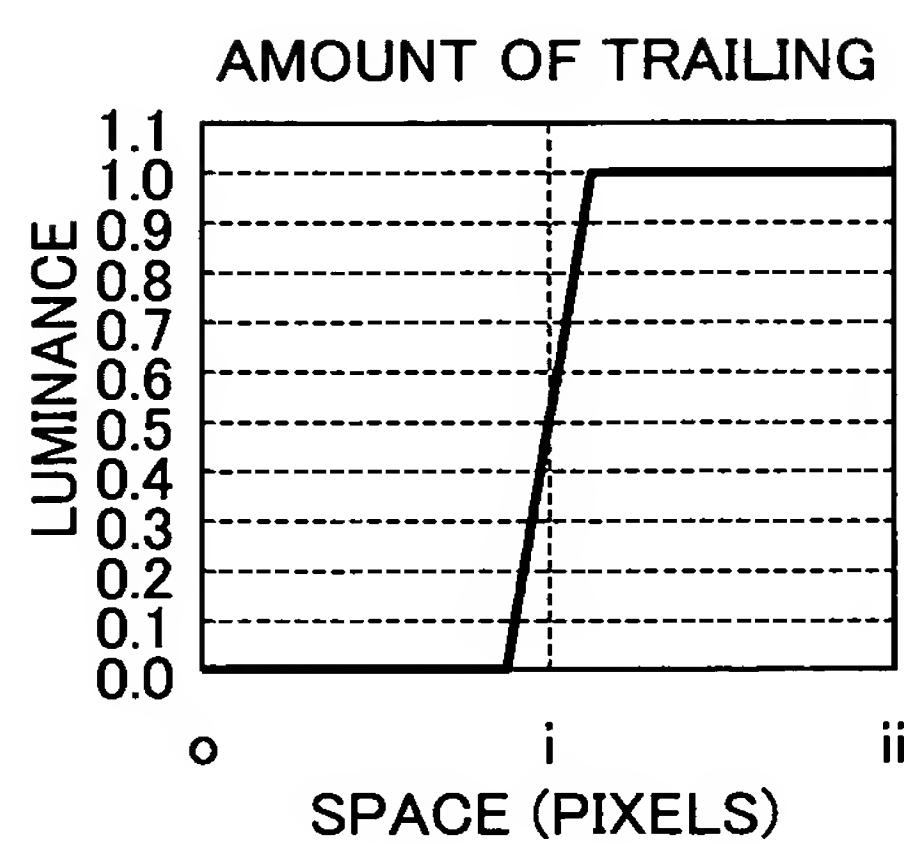


FIG. 116 (c)

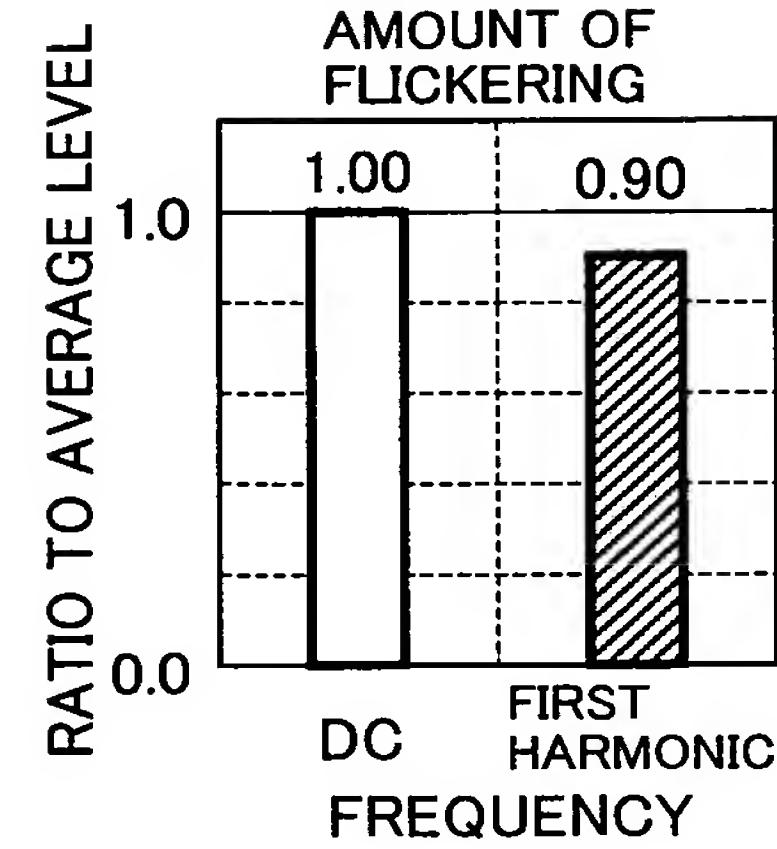


FIG. 116 (d)

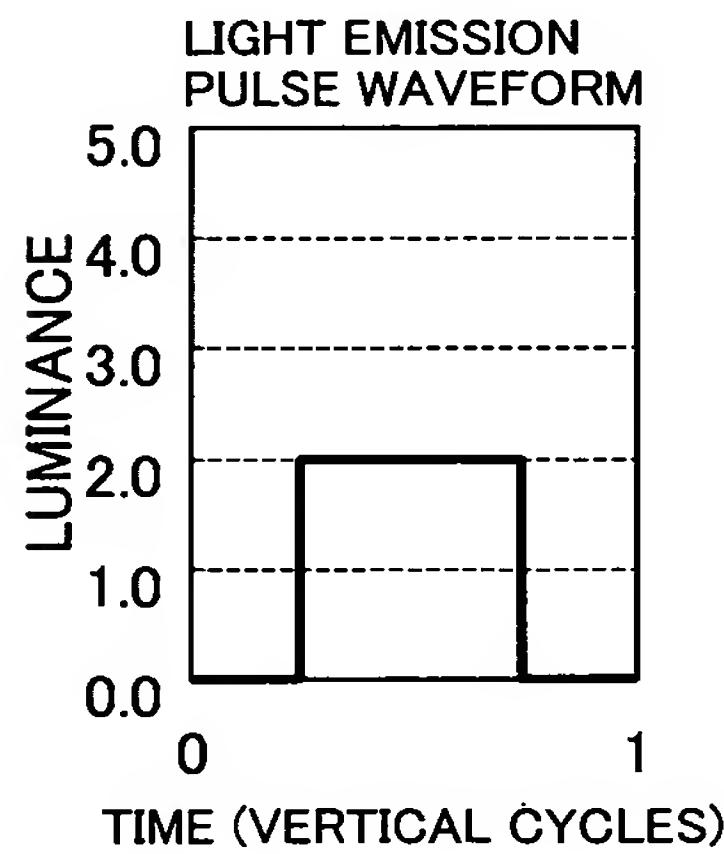


FIG. 116 (e)

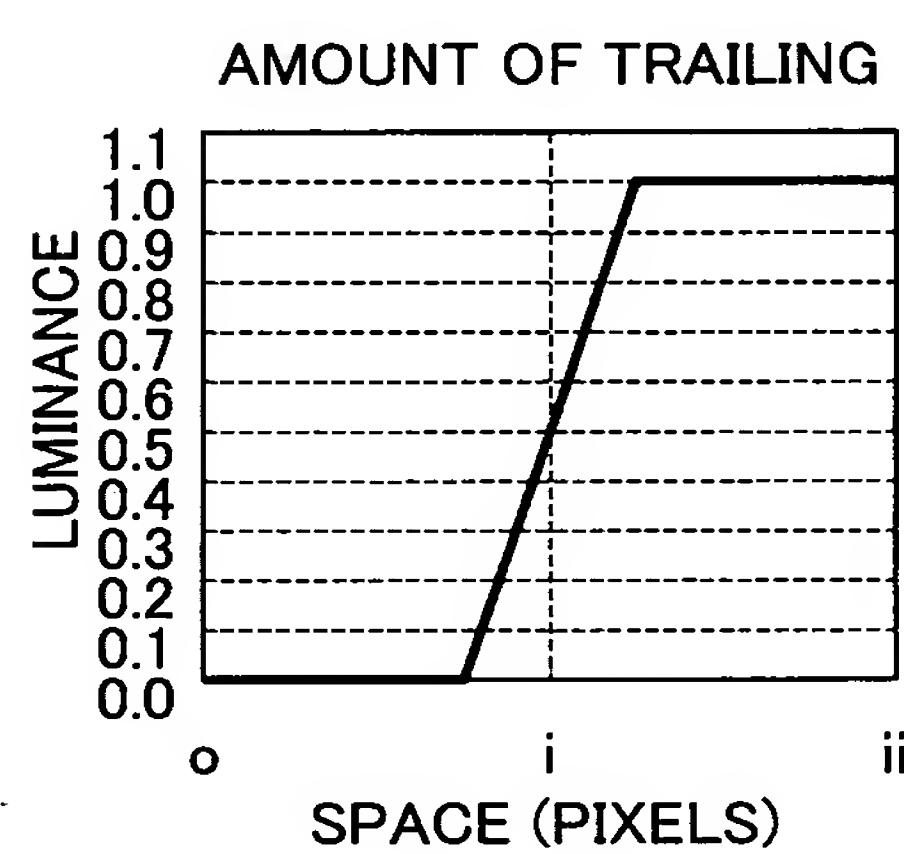


FIG. 116 (f)

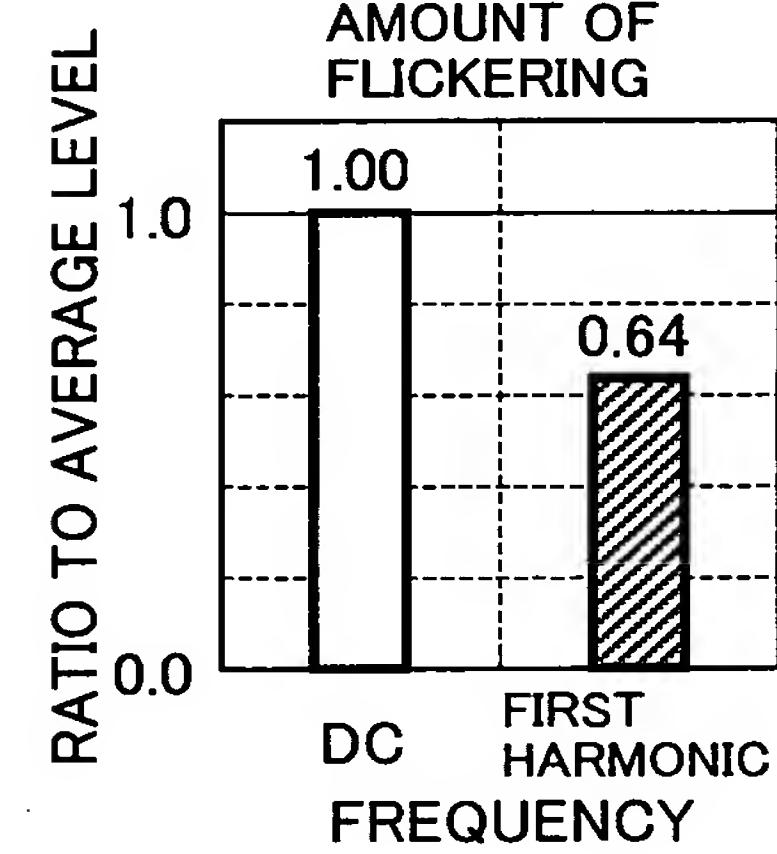


FIG. 116 (g)

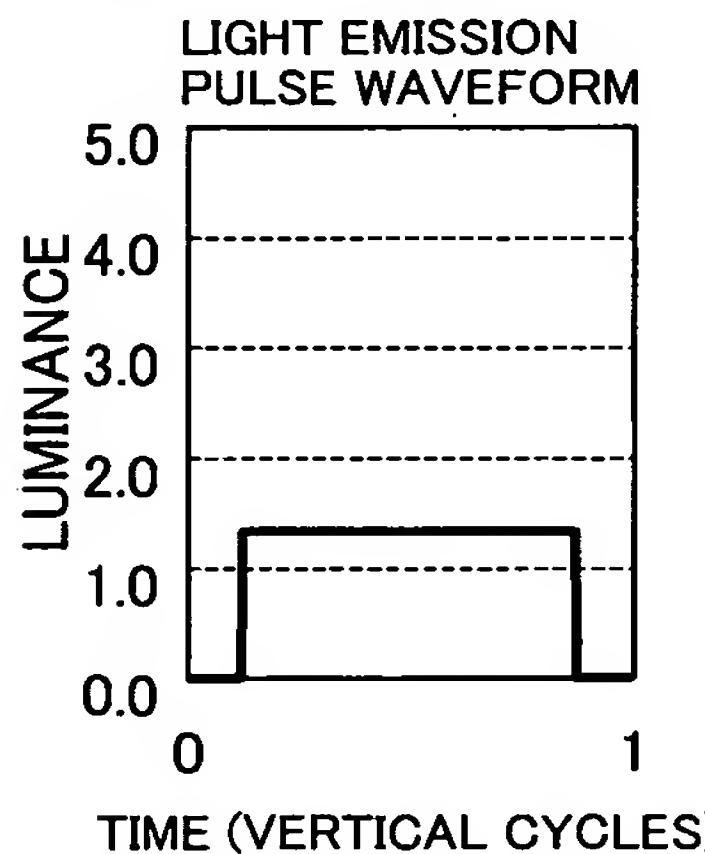


FIG. 116 (h)

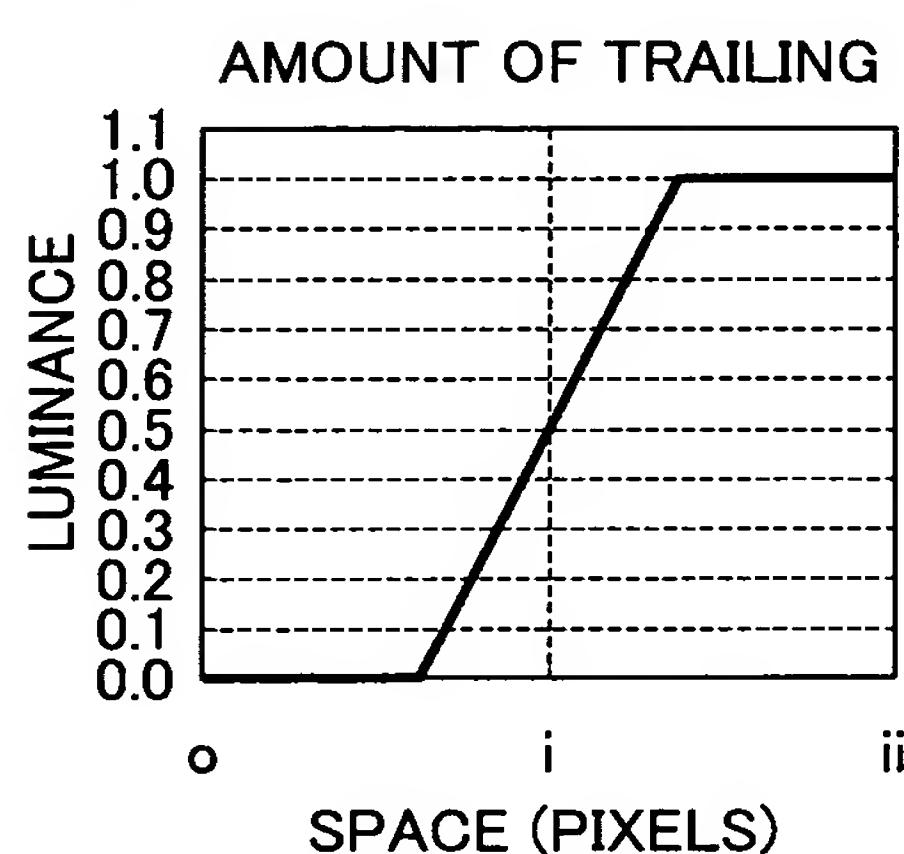


FIG. 116 (i)

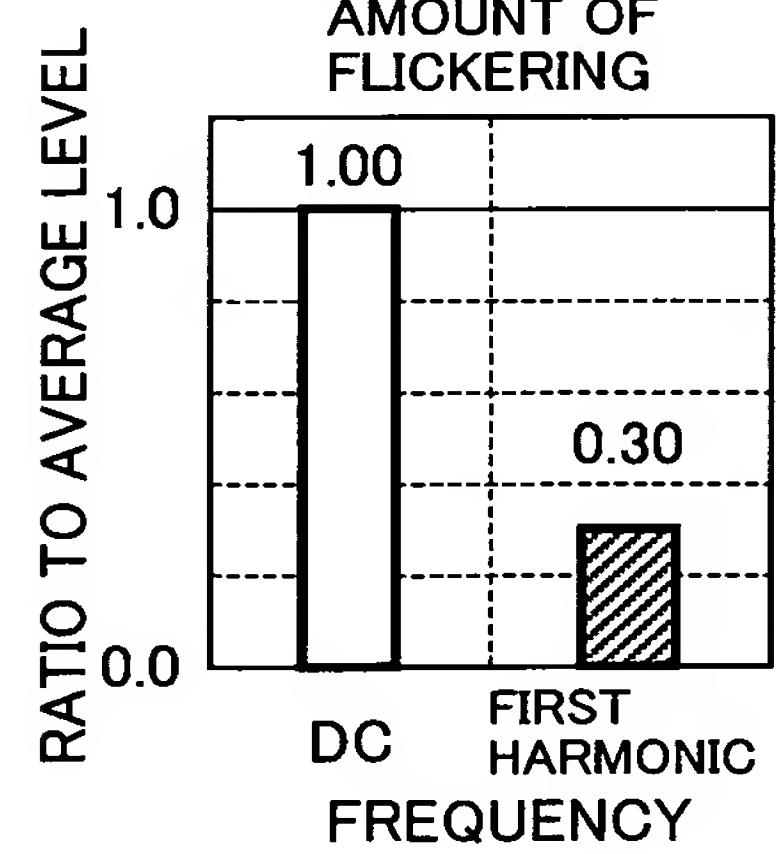


FIG. 117 (a)

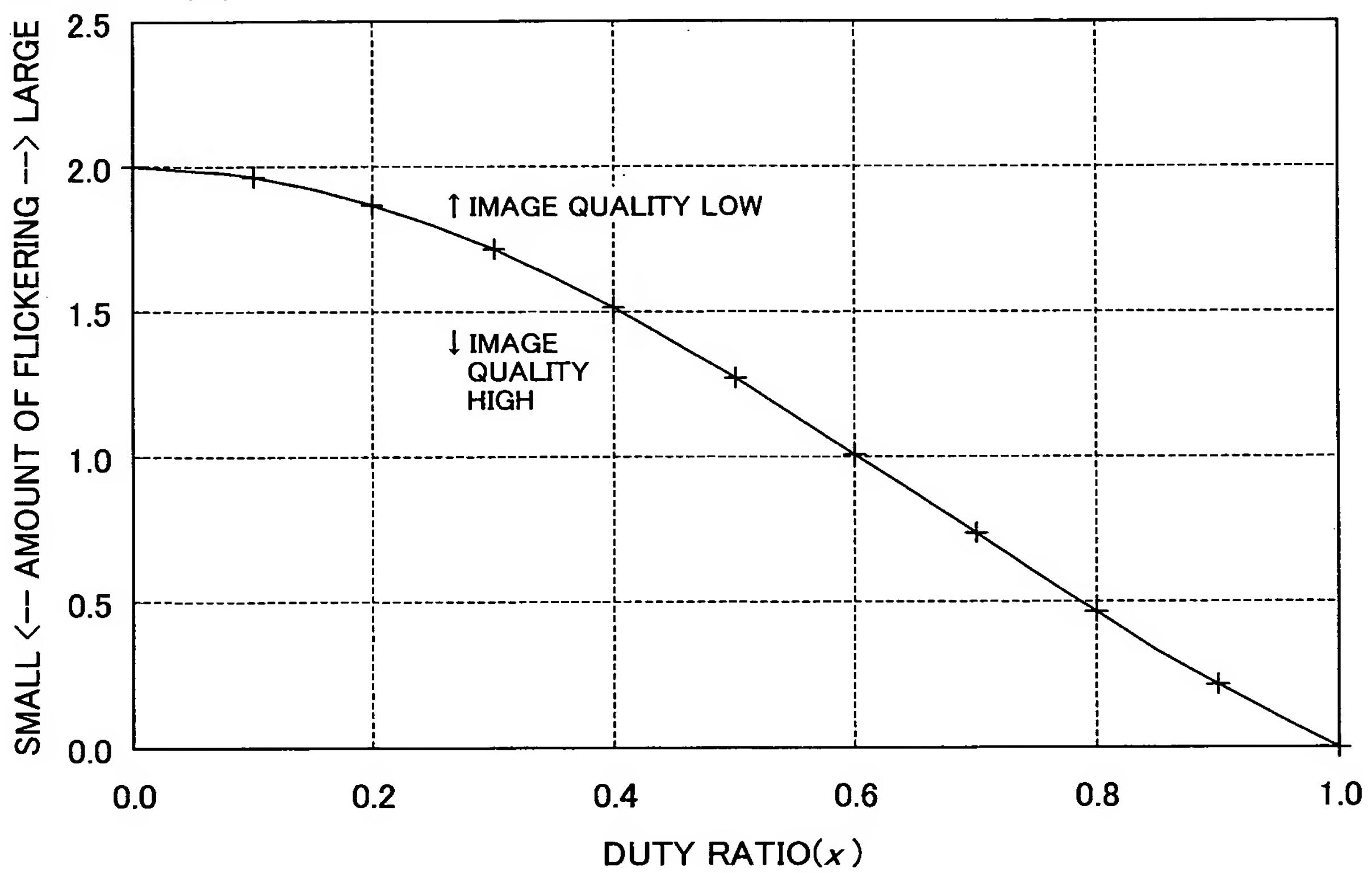


FIG. 117 (b)

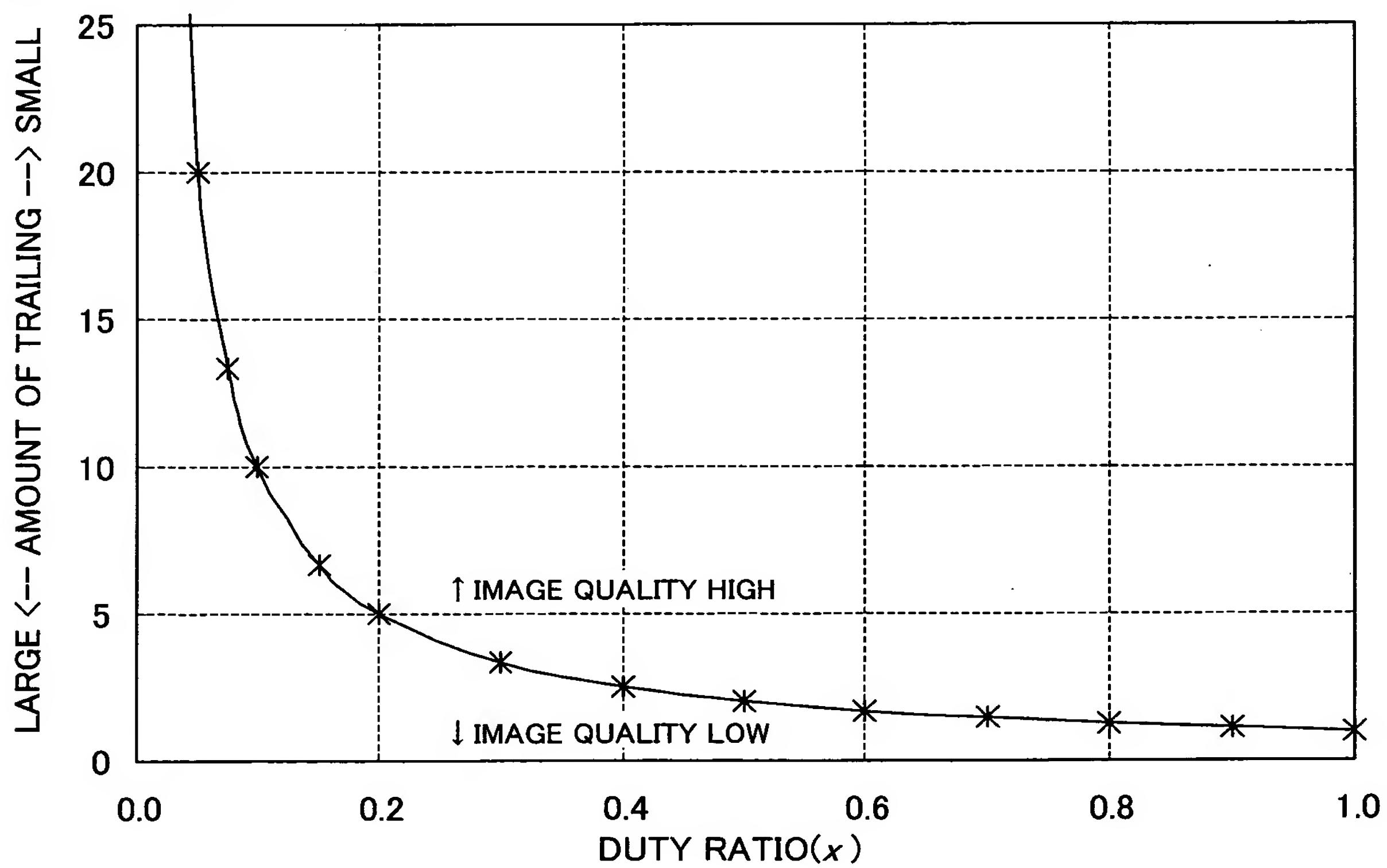


FIG. 118

RELATIONSHIP BETWEEN AMOUNTS OF TRAILING AND FLICKERING

